SEARS **OWNER'S** MANUAL MODEL NO. 917.254791 **CRAFTSMAN**[®] 12.5 HP OHV Caution: **ELECTRIC START** Read and follow all Safety Rules and Instructions Before Operating This Equipment **38" MOWER 5 SPEED TRANSAXLE** LAWN TRACTOR Assembly Operation Maintenance Service and Adjustment Repair Parts

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



SAFETY RULES

CAUTION: ALWAYS DISCONNECT SPARK PLUG WIRE AND PLACE WIRE WHERE IT CANNOT CONTACT SPARK PLUG TO PREVENT ACCIDENTAL STARTING WHEN SETTING-UP, TRANSPORTING, ADJUSTING OR MAKING REPAIRS.



IMPORTANT

SAFETY STANDARDS REQUIRE OPERATOR PRESENCE CONTROLS TO MINIMIZE THE RISK OF INJURY. YOUR UNIT IS EQUIPPED WITH SUCH CONTROLS DO NOT ATTEMPT TO DEFEAT THE FUNCTION OF THE OPERATOR PRESENCE CONTROLS UNDER ANY CIRCUMSTANCES.

TRAINING:

- Know the controls and how to stop quickly. Read this owner's manual and instructions furnished with attachments:
- Do not allow children to operate the machine. Do not allow adults to operate it without proper instruction.
- Do not carry passengers. Do not mow when children and others are around
- Do not attempt to operate your vehicle or mower when not in the driver's seat.
- Always get on or off your vehicle from the operator's left hand ehie
- The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment. ĩ.

PREPARATION:

- Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
- Clear the work area of objects (wire, rocks, etc.) which might be picked up and thrown.
- Disengage all attachment clutches before attempting to start the engine.
- Handle gasoline with care it is highly flammable.
- Use approved gasoline containers. Never remove the fuel cap of the fuel tank or add gasoline to a running or hot engine or an engine that has not been allowed to cool for several minutes after running. Never fill tank Indoors. Always clean up spilled gasoline.
- Open doors if the engine is run in the garage exhaust fumes are dangerous. Do not run the engine indoors
- Do not operate the mower without the entire grass catcher, on mowers so equipped, or the deflector shield in place:

OPERATION:

- Keep your eyes and mind on your vehicle, mower, and the area being cut. Do not let other interests distract you.
- Disengage power to attachments and stop the engine before leaving the operator's position.
- Disengage power to mower, stop the engine, and disconnect spark plug wire(s) from spark plug(s) before cleaning, making an adjustment, or repair. Be careful to avoid touching hot mulfier or engine components.
- Disengage power to attachments when transporting or not in use.
- Take all possible precautions when leaving the vehicle unat-tended. Disengage the power take-off, lower the attach-ments, shift into neutral, set the parking brake, stop the engine, and remove the key.
- Do not stop or start suddenly when going uphill or downhill Mow up and down the face of slopes (not greater than 15"), never across the face.
- Reduce speed on slopes and make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
- While going up or down slopes, place gearshift control lever in 1st gear position to negotiate the slope without slopping.

- Never mow in wet or slippery grass, when traction is unsure, or at a speed which could cause a skid.
- Stay alert for holes in the terrain and other hidden hazards. Keep away from drop-offs.
- Do not drive too close to creeks, ditches, and public highways.
- Exercise special care when mowing around fixed objects in order to prevent the blades from striking them. Never deliberately run vehicle or mower into or over any foreign objects.
- Never shift gears until vehicle comes to a stop.
- Never place hands or feet under the mower. In discharge chute, or near any moving parts while vehicle or mower is running. Always keep clear of discharge chute
- Use care when pulling loads or using heavy equipment.
 - Use only approved drawbar hitch points.
 - Limit loads to those you can safely control.
 - Do not turn sharply. Use care when backing
- Use counterweight or wheel weights when suggested in owner's manual.
- Watch out for traffic when crossing or near roadways.
- When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the vehicle while in operation.
- Except for adjustments, do not operate engine if air cleaner or cover directly over carburetor air Intake is removed. Removal of such part could create a fire hazard.
- Do not change the engine governor settings or overspeed the engine; severe damage or injury may result.
 - When using the vehicle with mower, proceed as follows:
 - Mow only in daylight or in good artificial light.
 - Shut the engine off when unclogging chute.
 - Check the blade mounting bolts for proper tightness at frequent intervals.
- Disengage power to mower before backing up. Do not mow in reverse unless absolutely necessary and then only after careful observation of the entire area behind the mower

MAINTENANCE AND STORAGE

- Keep the vehicle and attachments in good operating condition, and keep safety devices in place and working
- Keep all nuts, bolts, and screws tight to be sure the equip-ment is in safe working condition.
- Never store the equipment 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
- To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease. Do not clean product while engine is running.
- Do not operate without a muffler, or tamper with exhaust system. Damaged mufflers or spark arresters could create a fire hazard. Inspect periodically and replace if necessary.
- Under normal usage the grass catcher bag material is subject to deterioration and wear. It should be checked frequently for bag replacement. Replacement bags should be checked to ensure compliance with the original manufacturer's recommendations or specifications.

LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS - ATTENTIONIII BECOME ALERTIII YOUR SAFETY IS INVOLVED.

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

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Service Department. We have competent, well-trained techniclans 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 254791

SERIAL

NUMBER

DATEOFPURCHASE

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 "Maintenance" and "Storage" sections of this owner's manual.

PRODUCT SPECIFICATIONS

HORSEPOWER:	12.5
GASOLINE CAPACITY:	5 QUARTS UNLEADED REGULAR
OIL: (2.0 PINTS CAPACITY)	SAE 30 (or 10W-30) WINTER: SAE 5W-30
SPARK PLUG: GAP: (.030 INCHES)	CHAMPION RL86C STD360952
VALVE CLEARANCE:	INTAKE: 002 IN EXHAUST: 004 IN.
GROUND SPEED: REVERSE:	FORWARD: 1st - 1.10 MPH 2nd - 2.00 MPH 3rd - 3 00 MPH 4th - 4 20 MPH 5th - 5 00 MPH 1.50 MPH
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	3 AMPS @ 3600 RPM
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 years from date of purchase, when this riding equipment is maintained, lubricated, and tuned up according to the operating and maintenance instructions in the owner's manual, Sears will repair free of charge any detect in material or workmanship

This Warranty does not cover:

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

FULL 90 DAY WARRANTY ON BATTERY

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

WARRANTY SERVICE IS AVAILABLE BY CONTACTING THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES. THIS WARRANTY APPLIES ONLY WHILE THIS PRODUCT IS IN USE IN THE UNITED STATES.

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

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

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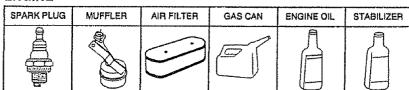
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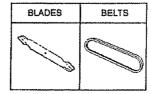
ACCESSORIES AND ATTACHMENTS

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



MAINTENANCE



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 healthler, 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 diameterwater-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 delears 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 (b. capacity weight tray

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

DETHATCHER loosens soll and flips thatch and matted leaves to lawn surface for easy pickup. Twenty spring line 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, iowers with side lever. Adjustable skids; replaceable, reversible scraper bar. (Use with the 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)

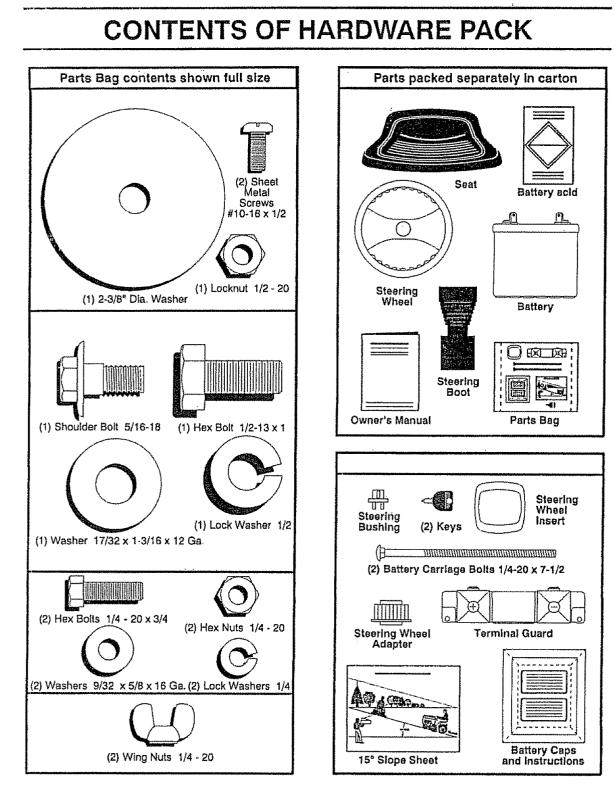
TIRE CHAINS are heavy duty; closely spaced extra-large cross links give smooth ride, outstanding traction.

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.

Optional accessories for tractor cab: Unted/tempered solid safety glass windshield with hand operated wiper; 12-volt amber caution light for mounting on cab top.

THACTOR 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)



ASSEMBLY

TOOLS REQUIRED FOR ASSEMBLY

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

(1) 5/16" wrench

(1) 1/2" wrench

(1) 9/16° wrench

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

When right or 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 the carton, from top to bottom, all four corners of carton and lay panels flat.
- Check for any additional loose parts or cartons and remove

ATTACH STEERING WHEEL (See Fig. 1)

- Slide the steering bushing over the steering shaft. .
- Raise steering shaft forward until screw holes in dash tine 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 1/2-20 hex locknut and tighten securely
- Snap insert into center of steering wheel
- Remove protective plastic from tractor hood, and grill-
- Remove banding holding discharge guard up against tractor

BEFORE ROLLING UNIT OFF SKID (See Flg. 6)

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

- Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal
- Roll unit backwards off skid

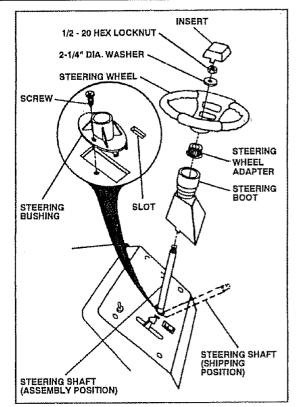


FIG. 1

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.

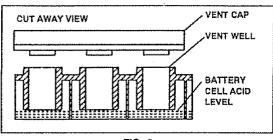
Your unit has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- · 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.

NOTE: To maximize the life of your battery, it is necessary that the battery be charged before use. Use a 12 volt battery charger. Charge battery at a rate of 6 amperes for 1 hour. Observe all safety precautions required for battery charging. Failure to charge battery can result in a shortened battery life.

- 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.

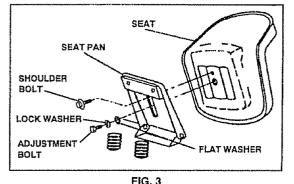




INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment bolt

- Remove cardboard packing on seat pan.
- Place seat on seat 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.



CHECK TIRE PRESSURE

The tires on your unit were overinfiated 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 cutling 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)



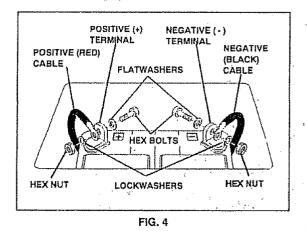
CAUTION: Do not short battery terminals. Before installing battery, remove metal bracelets, wristwatch bands, rings, etc.

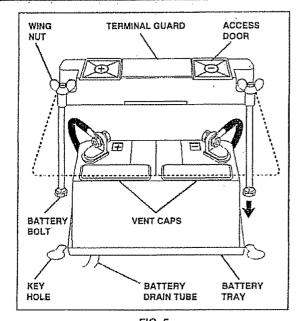
Positive terminal must be connected first to prevent sparking from accidental grounding.

- Lift seat to raised position.
- Lower battery into fender well with battery terminals toward front of unit. Make sure battery rests in battery tray.
- Be sure battery drain tube has not come loose and is securely attached to drain in battery tray.
- First connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lockwasher and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt, flat washer, lockwasher and hex nut Tighten securely.
- Slide the two battery bolts through the terminal guard and start the wing nuts onto the threads.
- Position terminal guard over the battery as shown, lower bolts into key holes and slide square shafts of bolts into slots of key holes.
- Tighten wing nuts by hand making sure battery bolts remain in slots of the key holes in the battery support.
- Be sure terminal access doors are closed.

Use terminal access doors for:

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





^{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.

-

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.

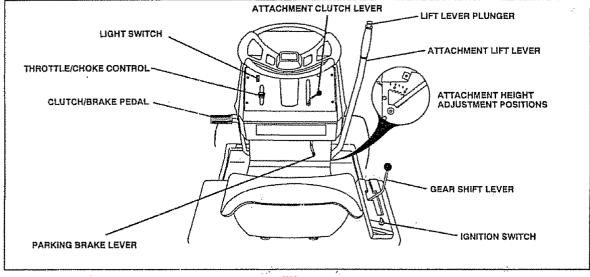


FIG. 6

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

ATTACHMENT CLUTCH LEVER - Used to engage the mower blades.

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.

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

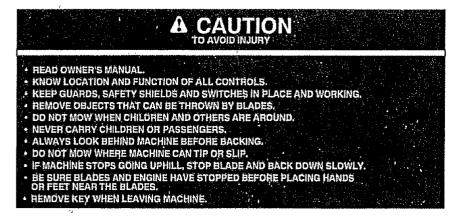
 $\ensuremath{\mathsf{IGNITION}}$ SWITCH - Used for starting and stopping the engine.

GEAR SHIFT LEVER - Selects the speed and direction of the tractor.

LIGHT SWITCH - Turns the headlights on and off.

PARKING BRAKE LEVER - Locks clutch/brake pedal into the brake position.

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





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)

Your unit is equipped with an operator presence sensing switch. When engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine.

- 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

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.
- 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.

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 and the engine cooling air flow.
- 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 gear shift lever in "NEUTRAL" position.
- · Move gear shift lever to desired position
- Slowly release clutch/brake pedal to start movement.
- IMPORTANT: BRING TRACTOR TO A COMPLETE STOP BEFORE SHIFTING OR CHANG-ING GEARS, FAILURE TO DO SO WILL SHORTEN THE USFUL LIFE OF YOUR TRANSAXLE.

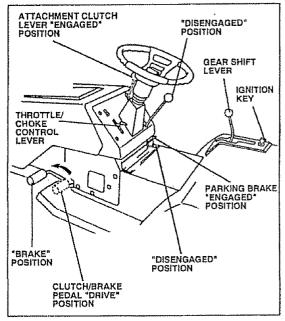


FIG. 7

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 1-1/4" to 3-3/4". 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 healthler 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.

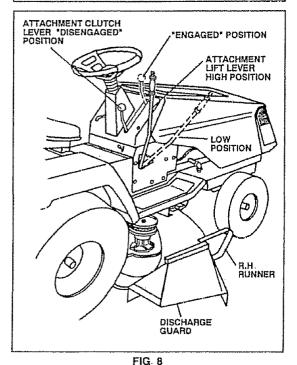
TO OPERATE MOWER (See Fig. 8)

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 moving attachment clutch lever up 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.



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. 16)

- 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 Maintenance section of this manual).
- To change engine oil, see the Maintenance 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 TEMPERA-TURES BELOW 32°F, 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 molsture 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.

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, slowly move throttle control lever to desired running speed
- 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 .91 kilometers) 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).

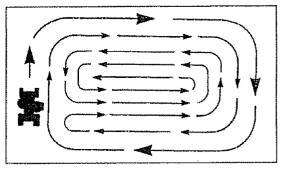
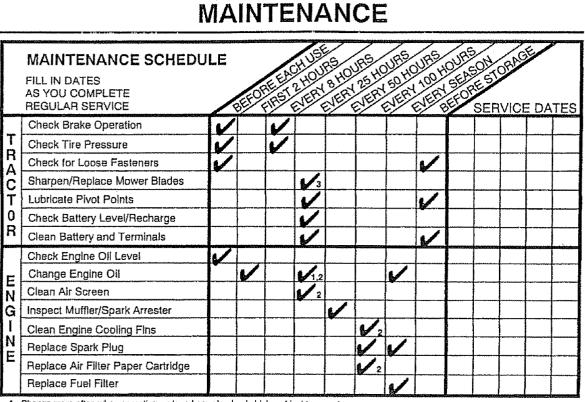


FIG. 9

- 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 speed 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.



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 - Replace blades more often when mowing in sandy soll.

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

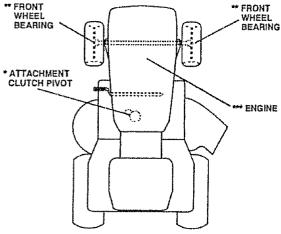
- Check engine oil level
- Check brake operation.
- Check tire pressure.
- Check for loose fasteners

LUBRICATION

Keep unit well lubricated (See "LUBRICATION CHART").

Front wheel bearings should be greased at least once a season

LUBRICATION CHART



- SAE 30 OR 10W30 MOTOR OIL API SF/CC GENERAL PURPOSE GREASE REFER TO ENGINE MAINTENANCE 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 graphile type lubricant sparingly.

MAINTENANCE

TRACTOR

Always observe safety rules when performing any maintenance.

TIRES

- Maintain proper air pressure in all tires (See "PROD-UCT SPECIFICATIONS" on page 3 of this manual).
- Keep three 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, lockwasher and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown
- Reassemble hex boit, lockwasher and flat washer in exact order as shown.
- Tighten bolt securely (30-35 Ft Lbs. torque).

IMPORTANT: BLADE BOLT IS GRADE 5 HEAT TREATED.

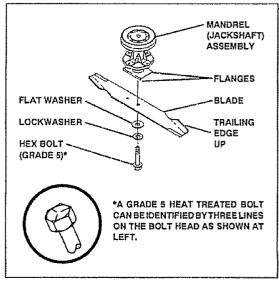


FIG. 10

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, drive a nall into a beam or wall Leave about one inch of the straight nall exposed.
 Place center hole of blade over the head of the nall. 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.

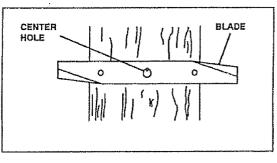
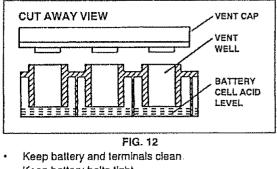


FIG. 11

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.



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

MAINTENANCE

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).

ENGINE

LUBRICATION

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. Add SAE 30W motor oil or equivalent. Tighten oil fill cap/dipstick securely each time you check the oil level SAE 5W-30 motor oil may be used to make starting easier in areas where temperature is consistently 32° F or lower.

TO CHANGE ENGINE OIL (See Figs. 13 & 14)

Determine temperature range expected before oil change All oil must meet API service classification SD, SE or SF.

- Be sure vehicle is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a sultable container
- Remove oil fill dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.

- After oll has drained completely, replace oll 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.

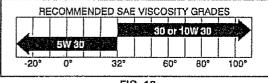


FIG. 13

AIR FILTER (See Fig. 14)

Your engine will not run properly and may be damaged by using a dirty air filter. Replace paper cartridge once a year or after every 100 hours of operation, more often if used in very dusty, dirty conditions.

- Remove knobs and cover.
- Replace cartridge
- Reassemble and lighten securely

NOTE: Do not attempt to clean or oil the paper cartridge.

AIR SCREEN (See Fig. 14)

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

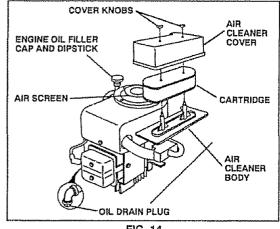


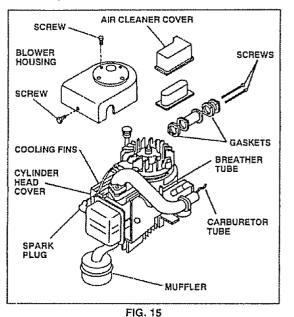
FIG. 14

MAINTENANCE

ENGINE COOLING FINS (See Fig. 15)

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating. Hood and engine blower housing must be removed to clean engine cooling fins

- Remove hood (see "TO REMOVE HOOD" in the Service and Adjustments section of this manual).
- Remove screws securing air cleaner body and remove. (Cover carburetor opening to prevent entry of dirt)
- Remove oil fill dipstick and cover opening to prevent entry of dirt.
- Remove screws from blower housing and lift housing off engine.
- Use compressed air or stiff bristle brush to thoroughly clean engine cooling fins.
- To reassemble, reverse above procedure.
- Be certain carburetor tube, breather tube and gaskets are in place



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 "PROD-UCT 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.

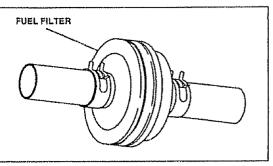


FIG. 16

CLEANING

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

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.

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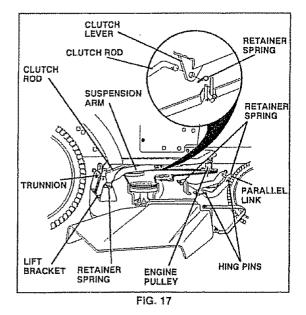
TRACTOR

TO REMOVE MOWER (See Fig. 17)

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

- Remove mower blade drive belt from engine pulley only (See "TO REPLACE MOWER BLADE DRIVE BELT" through step removing belt from engine pulley).
- Remove retainer spring from clutch rod; pull clutch rod out of clutch lever
- Pull retainer springs out of rear suspension trunnions. Remove rear suspension trunnlons from lift brackets.
- Pull retainer springs from front hinge pins
- Remove hinge pins attaching parallel link to mower and front axle.
- 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. SUS-PENSION ARMS MUST BE REMOVED FROM TRACTOR.



Install clutch rod in clutch lever and secure with relainer spring.

side of tractor.

TO INSTALL MOWER (See Fig. 17)

Lower attachment lift lever to lower suspension arms. Slide trunnions through lift bracket holes and secure with retainer springs

Raise attachment lift lever to its highest position.

pins. Secure hinge pins with retainer springs.

Slide mower under tractor with discharge guard to right

Install parallel link to front axle and mower with hinge

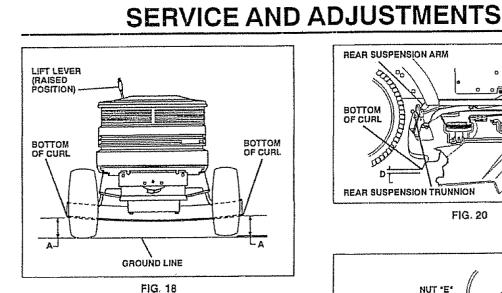
- Roll belt over engine pulley. Make sure belt is inside all pulley grooves and inside belt guides.
- Raise attachment lift lever to raise mower.

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)

- Raise attachement lift lever to its highest position.
- Measure height from bottom of deck curl to ground level at front corners of mower. Distance "A" should be the same
- If distance "A" needs to be changed, snap out access hole cover on left side of tractor above footrest.
- To raise left side of mower, loosen nut "B" and lighten nut "C"
- To lower left side of mower, loosen nut "C" and tighten nut "B"
- When distance "A" is equal, securely tighten nuts "B" and *C
- Replace access hole cover



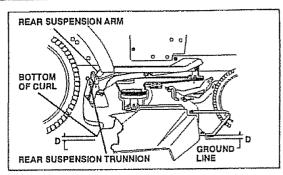
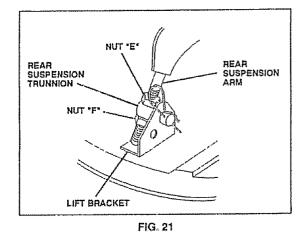


FIG. 20





NUT "O

NUT *B*

FRONT-TO-BACK ADJUSTMENT(See Figs 20 and 21) -To obtain the best cutling results, the mower housing should be adjusted so the rear is approximately 3/4 to 7/8" higher than the front when the mower is in its highest position.

Check adjustment on right side of tractor. Measure dis-tance "D" at front and rear flanges of mower housing as shown

- To raise rear of mower, loosen nut "E" on both rear suspension arms. Screw both nuts "F" on both rear suspension arms an equal number of turns.
- When distance "D" is 3/4" to 7/8" higher at rear than front, relighten nuts "E"
- Recheck side-to-side adjustment.

SIDE TO SIDE ADJUSTMENT TRUNNION

IMPORTANT: WHEN ADJUSTING REAR SUSPEN-SION TRUNNIONS, ALWAYS ADJUST BOTH EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

TO ADJUST MOWER BLADE DRIVE BELT (See Fig. 22)

Your tractor has been manufactured with the ability to readjust the mower blade drive belt to provide you with longer belt life

With engine off and the lift lever in the highest position, move attachment clutch lever slowly forward. If the lever moves significantly forward in the slot before resistance is felt, adjustment is necessary.

- · Lower the mower deck for easier access
- Remove the bolt, nut and D-shaped washers from rock shaft assembly.
- Move extension spring from lower to upper end of slot in rock shaft assembly and install bolt, nut and the D-shaped washers (flat side of washers down)
- Tighten bolt and nut to secure the D-shaped washers (Ilal side down as shown)

NOTE: When installing a new belt, be sure spring is in lower end of slot.

TO REPLACE MOWER BLADE DRIVE BELT (See Figs. 22 and 23)

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.
- · Pull belt off both mandrel pulleys
- Spring belt guide away from idler pulley and pull belt off idler pulley.
- Slide belt from under extension spring.

BELT INSTALLATION -

- Slide belt under extension spring
- Place belt around back side and in groove of both mandrel pulleys
- Spring idler belt guide down and place belt around rear side of idler pulley
- Roll belt over engine pulley.
- Make sure belt is in all pulley grooves and inside all belt guides.

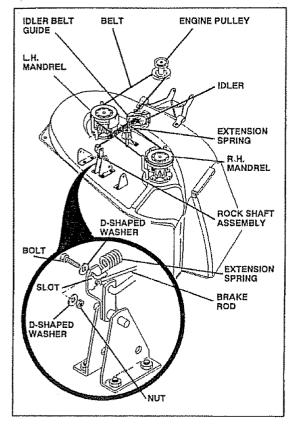


FIG. 22

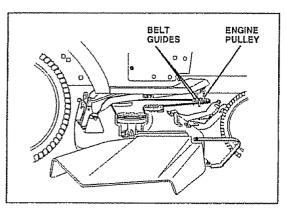


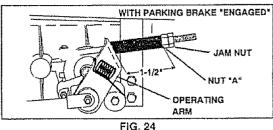
FIG. 23

TO ADJUST BRAKE (See Fig. 24)

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 Sears Service Center.



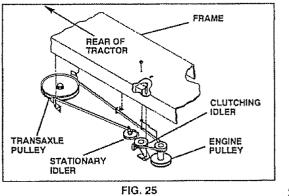
Fila. 24

TO REPLACE MOTION DRIVE BELT (See Fig. 25)

Park the tractor on level surface. 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 transmission pulley
- Install new belt by reversing above procedure.

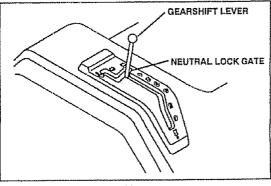
IMPORTANT: REPLACE ONLY WITH BELT LISTED IN THIS MANUAL



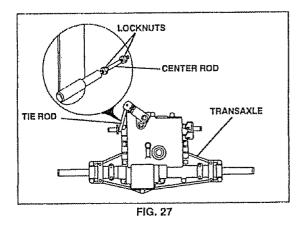
TRANSAXLE SHIFTER LINKAGE AND AD-JUSTMENT (See Figs. 26 & 27)

The transaxle should be in neutral when the gear shift lever is in the neutral (lock gate) position. The adjustment is preset at the factory; however, if adjustment is needed, proceed as follows.

- Make sure transaxle is in neautral. Loosen two locknuts on tie rod.
- Turn center rod until gear shift lever falls into neutral lock gate on fender console.
- Tighten locknuts securely.







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 unit. If damage has occured to affect the front wheel toe-in or camber, contact your nearest Sears Service Center.

TO REMOVE WHEEL FOR REPAIRS (See Fig. 28)

- 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.

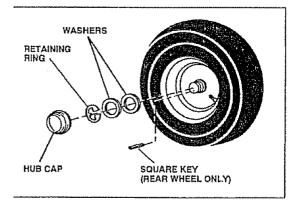


FIG. 28

TO START ENGINE WITH A WEAK BATTERY (See Figs. 29 & 30)



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 TRAC-TOR BATTERY TO START OTHER VE-HICLES.
- 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 NEGA-TIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to a panel bolt on the left side of the chassis, away from fuel tank and battery.
- TO REMOVE CABLES, REVERSE ORDER -
- BLACK cable first from left side of chassis and fully charged battery
- RED cable last from both batteries

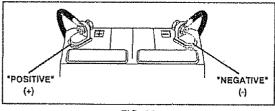


FIG. 29

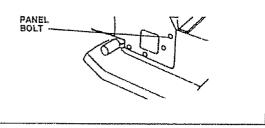


FIG. 30

TO REPLACE FUSE (See Fig. 31)

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

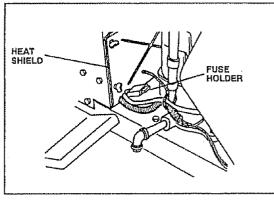


FIG. 31

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 ASSEMBLY (See Figs. 32 and 33)

- Raise hood.
- Unsnap headlight wire connector.
- Carefully remove springs from hinge brackets.
- Stand at side of tractor. Grasp hood, tilt forward and lift off hinge brackets.
- To reinstall, slide hood pivot rod into slot in hinge brackets, and carefully reinstall hood springs.

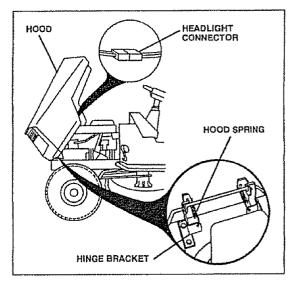


FIG. 32

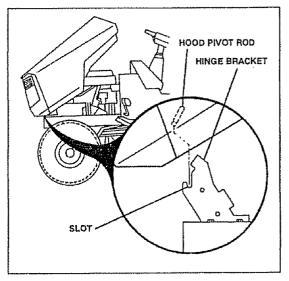


FIG. 33

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 34)

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 hole in throttle lever and hole in plate line up. If holes "A" are not aligned, loosen clamp screw and move throttle cable until holes are aligned. Tighten clamp screw securely.

TO ADJUST CARBURETOR (See Fig. 34)

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 the mixture screws in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/ air mixture. Turning the mixture screws out (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

IMPORTANT: DAMAGE TO THE NEEDLES AND THE SEATS IN CARBURETOR MAY RESULT IF SCREWS ARE TURNED IN TOO TIGHT.

PRELIMINARY SETTING -

- Be sure you have a clean air filter and the throttle control cable is adjusted properly (see above).
- With engine off turn high speed mixture screw in (clockwise) closing it finger tight and then turn out (counterclockwise) 1-1/2 turns.
- Turn idle mixture screw in (clockwise) closing finger tight and then turn out (counterclockwise) 1 turn.

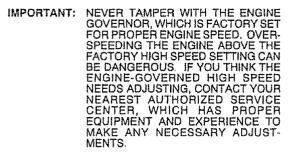
FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in "NEUTRAL" position.
- With throttle control lever in "FAST" position, turn high speed mixture screw In (clockwise) until engine begins to die then turn out (counterclockwise) until engine runs rough. Turn screw to a point midway between those two positions.
- With throttle control lever in "SLOW" position, turn idle mixture screw in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn screw to a point midway between those two positions.
- With throttie control lever in "SLOW" position, engine should idle at 2100 RPM. If engine idles too slow, move throttle control lever above idle and turn idle speed screw in (clockwise) one turn. Set throttle control lever at "SLOW". Repeat until satisfactory idle is attained.
- If engine idles too fast in "SLOW" position move throttle control lever above idle and turn idle speed screw out (counterclockwise) one turn. Set throttle control lever at "SLOW". Repeat until satisfactory idle is attained.

ACCELERATION TEST -

 Move throttle control lever from "SLOW" to "FAST" position. If engine hesitates or dies, turn high speed mixture screw 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.



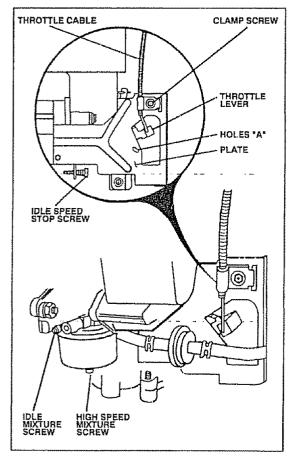


FIG. 34

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. Give blades and underside of housing a good coat of grease or rust preventative. Store in a clean, dry area.

- Clean entire tractor (See "CLEANING" in the Maintenance 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 Maintenance 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 Maintenance 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 to drain in battery tray.

ENGINE

FUEL SYSTEM

- IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSEN-TIAL 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. Fun 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 oll (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Maintenance 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 EN-GINE AND EXHAUST AREAS ARE STILL WARM.

	TROUBLESHOOTI	ING POINTS	
PROBLEM	CAUSE	CORRECTION	
Will not start	 Out of fuel. Engine not "CHOKED" property Engine flooded Bad spark plug. Dirty air filter. Dirty fuel filter Water in fuel Loose or damaged wiring. Carburetor out of adjustment Engine valves out of adjustment. 	 Fill fuel tank. See TO START ENGINE in operation section. Walt several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Replace fuel filter. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Check all wring. Contact Sears Service Center. 	
Hard to start	 Dirty eir filter. Bad spark plug Week or dead battery Dirty fuel filter. State or dirty fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Check all witing. Contact Sears Service Center. Contact Sears Service Center. 	
Engine will not turn over	 Clutch/brake pedal not depressed. Attachment clutch is engaged. Spark plug wire is disconnected Weak or dead battery. Blown fuse Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch Faulty solenoid or starter Faulty operator presence switch(es) 	 Depress Clutch/brake pedal. Disengage attachment clutch Connect wire to spark plug Recharge or replace battery. Replace fuse. Clean battery terminals. Chack all wing Chack/replace Ignition switch. Chack/replace solenoid or starter Contact Sears Service Center. 	
Engine clicks but will not start	 Weak or dead battery Corroded battery terminals. Loose or damaged wiring Faulty solenoid or starter 	 Recharge or replace battery. Clean battery terminals. Check ell wiring. Check/replace solenoid or starter. 	
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower Dirty air filter. Low oil level/dirty oil Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel Water in fuel Spark plug wire loose Dirty/clogged mulfler. Loose or damaged wiring. Carburator out of adjustment. Engine valves out of adjustment. 	 Set In "Higher Cul" position/reduce speed Adjust throttle control Clean underside of mower housing Clean/reptace alr filter. Chack oil level/change oil. Clean and regap or change spark plug Replace fuel filter Drain fuel tank and refill with fresh gasoline. Drain fuel tank and refill with fresh gasoline. Connect and tighten spark plug wire Clean engine air screen/lins. Clean (replace mulfiler. Chack all wing. Contact Sears Service Center Contact Sears Service Center. 	
Excessive vibration	 Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). 	 Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts 	

TROUBLESHOOTING POINTS

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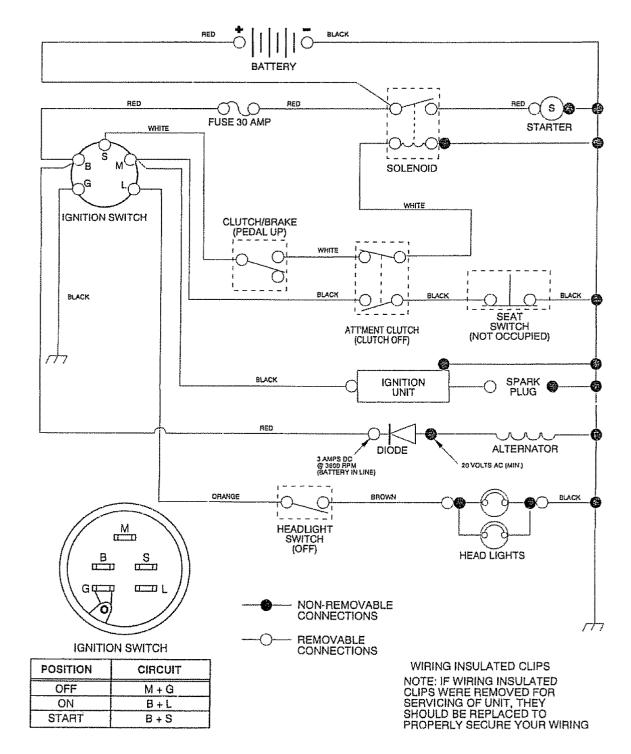
PROBLEM	CAUSE	CORRECTION	
Engine continues to run when operator leaves seat with attachment clutch engaged	 Faulty operator-safety presence control system. 	 Check wiring, switches and connections. If not corrected, contact Sears Service Center. 	
Poor cut - uneven	 Wom, bent or loose blade Mower deck not level- Build-up of grass, feaves, and trash under mower. Bent blade mandret. 	 Replace blade Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel 	
Mower blades will not rolate	 Obstruction in clutch mechanism. Mower drive belt out of adjustment Worn/damaged mower drive belt. Frozen idler pulley Frozen blade mandrel. 	 Remove obstruction Adjust mower drive belt Replace mower drive belt Replace idler pulley. Replace blade mandrei 	
Poor grass discharge	Engine speed too slow Travel speed too slow Travel speed too fast. Wet grass Mower deck not level Low/uneven tire air pressure Worn, bent or loose blade Build-up of grass, leaves and trash under mower Mover drive belt worn or out of adjustment. Blades improperly installed Improper blades used.	 Place throttle control in "FAST" position Shift to slower speed. Allow grass to dry before mowing. Level mower deck. Check thres for proper air pressure. Replace/sharpen blade Tighten blade bolt Clean underside of mower housing Replace/adjust mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual 	
Haadiight(a) not working (If so equipped)	1 Switch is "OFF". 2 Bulb(s) burned out 3 Faulty light switch 4 Loose or damaged wiring. 5 Blown fuse.	1 Tum switch 'ON'. 2 Replace buib(s). 3 Check/replace light switch. 4 Check wiring and connections. 5. Replace fuse	
Battery will not charga	 Bad battery cell(s) Poor cable connections. Faulty regulator (if so equipped) Faulty alternator. 	Replace battery Check/clean all connections Replace regulator Replace alternator	

SERVICE NOTES

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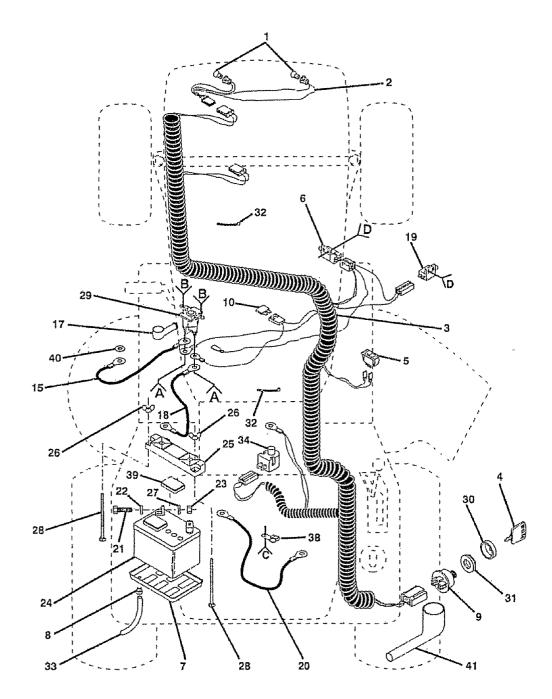
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12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791 SCHEMATIC

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791 ELECTRICAL



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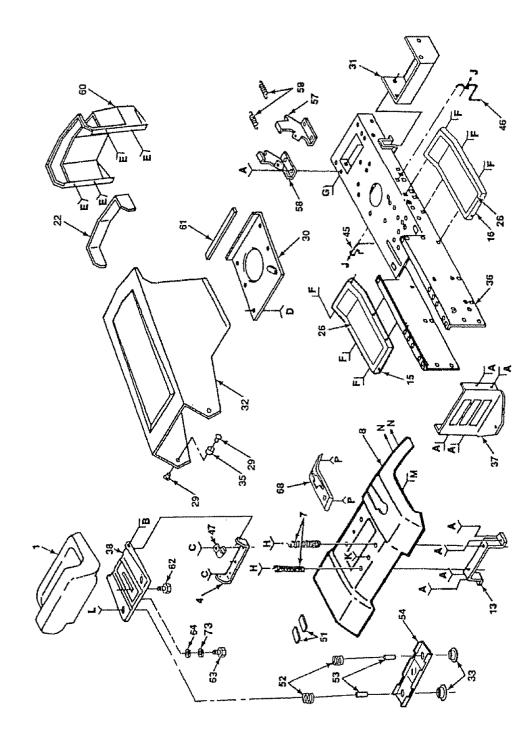
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12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791 ELECTRICAL

	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	7662J	Bulb, Light	26	123198X	Nut, Wing 1/4-20
2	127441X	Harness, Light Socket	27	STD551125	*Washer, Lock, Heavy Hellcal Spring
3	129794	Harness, Wiring	28	72240460	Bolt, Carriage 1/4-20 x 7-1/2
4	109310X	Key, Molded	29	109081X	Solenoid
5	110712X	Switch, Light	30	123620X	Cover, Ignition
6	104445X	Switch, Interlock	31	124211X	Nut, Ignition
7	7603J	Tray, Battery	32	7192J	Cable, Tie
8 9	109596X	Clamp, Hose	33	105687X	Tube, Plastic
9	STD365402		34	121305X	Switch, Plunger
10	108824X	Fuse	35	STD601005	* Screw, Tap Hex Hd. #10 x 24 UNC
11	STD551125	* Washer, Lock 1/4	36	74641008	Screw, Slotted Pan Head
12	73350400	Nut, Hex, Jam 1/4-20			#10-32 x 1/2
13	74780408	Bolt, Hex 1/4-20 x 1/2 Grade 5	37	73951000	Nut,Keps #10-32 x 1/2
14	STD541425			4171R	Clip, Insulated
15	108423X	Cable Assembly		121264X	Battery Caps Set
16	11050400	Washer, Lock, External Tooth 1/4	40	11150400	Washer, Lock, Internal Tooth 1/4
17	719J	Cover, Terminal	41	123620X	Cover, Ignition Switch+
18	5114J	Cable, Battery	• •	101539X	Sheet, Instruction, Tractor, 15°
19	109553X	Switch, Interlock			Slope
20	4207J	Cable, Battery	• •	130898	Owner's Manual
21	74760412	Bolt, Hex 1/4-20 x 3/4			
22	STD551025	*Washer 9/32 x 5/8 x 16 Gauge			
	STD541025	* Nut, Hex 1/4-20	* STA	NDARD HAR	DWARE — PURCHASE LOCALLY
24	121265X	Battery			
25	102476X	Guard, Terminal	NOT	E: All compon 1 inch = 25	ent dimensions given in U.S. inches 4 mm

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791

CHASSIS



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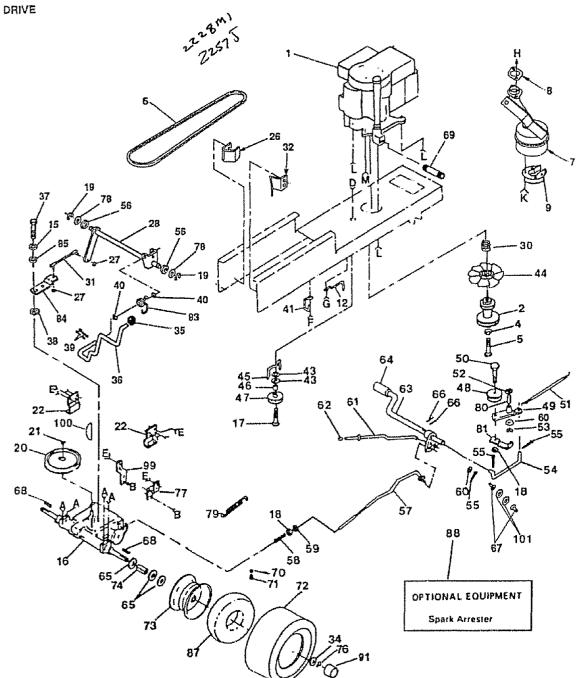
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12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791

KEY PART NO. DESCRIPTION 38 124294X 121441X Pan, Seat Guide, Belt, Lower, Engine Pulley, L.H. Guide, Belt, Lower, Engine Pulley, R.H. Guide, Belt, Carriage 1/4-20 x 1-1/4 52 121251X 51 121251X Sparter, 13/32 x 1 x 14 Gauge Lockmut, Hex, Large, Flange 121254X 52 121254X Sparter, 13/32 x 1 x 14 Gauge Lockmut, Hex, Large, Flange 121254X 53 121254X Sparter, 13/32 x 1 x 14 Gauge Lockmut, Hex, Large, Flange 121254X 53 121246X Sparter, 13/32 x 1/4 53 121246X Sparter, 1/2 x 13 x 7/8 53 121246X Sparter, 1/2 x 13 x 7/8 53 121246X Sparter, 1/2 x 13 x 7/8 51 1250180 Sparter, 1/2 x 13 x 7/8 52 1270180 Bolt, Hex 1/2 x 13 x 7/8 53 7478014 Washer 1/7/22 x 13 x 7/8 53 1050037X Shoulder 5/16 x 12 53 105003000 Washer 1/22 x 13/4	L M N P 4 0 12 00 50 65 112 111 12
KEY PART DES 38 124294X DES 45 121440X Guid 45 121440X Guid 46 121440X Guid 50 122140X Guid 51 12140X Guid 51 12140X Guid 51 121249X Spar 52 121249X Spar 53 1229315X Spar 61 123315X Spar 62 127018X Brac 63 127156 Vas 64 19171912 Was 71 72110606 Bolt 73 10040800 Was 71 72110606 Bolt	~ ∰ @ @@@@() ~ @@@@@@() ~ %
 DESCRIPTION Seat Seat Screw, Hex Washer Head, Thd. Roll. Screw, Shudder 5/16-18 Bracket, Provt, Seat Bolt, Shoulder 5/16-18 Nut, Crownlock 5/16-18 Nut, Crownlock 5/16-18 Nut, Crownlock 3/16-18 Spring, Seat Screw, Hex Washer Head, Thd. Roll. Screw, Spiderlock Hex #8 x 1/2 AB Nut, Crownlock 3/8-16 Screw, Hex Washer Head, Thd. Roll. Backet, Fender Screw, Hex Washer Head, Thd. Roll. Backet, Fender Bracket, Fender <li< td=""><td></td></li<>	
KEY PART NO. NO. 1 127436 2 17490615 3 17490616 5 73680500 6 73680500 7 1241817 8 126529X417 9 517523707 10 17030808 11 73680600 11 77030808 11 73680600 11 77030808 11 73680600 11 77030808 11 73680600 11 77030808 11 73680600 11 77030808 11 73680500 12 12523707 13 109873X 13 109873X 13 109873X 12 4760412 19 132012 22 139132012 22 139132012 22 124025X417 10 126850X 33 1224025X417 12 24025X417 12 19132012 22 124025X417 12 19132012 22 124025X417 12 19132012 22 124025X417 12 19132012 22 12405X417 12 19132012 22 12405X417 12 19132012 22 12405X417 12 19132012 22 12405X417 12 19132012 22 12405X417 12 19132012 22 12405X417 13 102415 12 10551125 22 12405X417 13 123655X 31 123655X417 12 12405X417 12 12405X417 12 120551125 22 12405X417 12 120551125 22 12405X417 12 120551125 22 12405X417 12 120551125 22 12405X417 12 12 120555 22 12405X417 12 12 12 120555 22 12 120555 22 12 12 12 12 12 12 12 12 12 12 12 12 1	A 2 ()) () () () () () () () () () () () ()

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12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791



12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791

DRIVE

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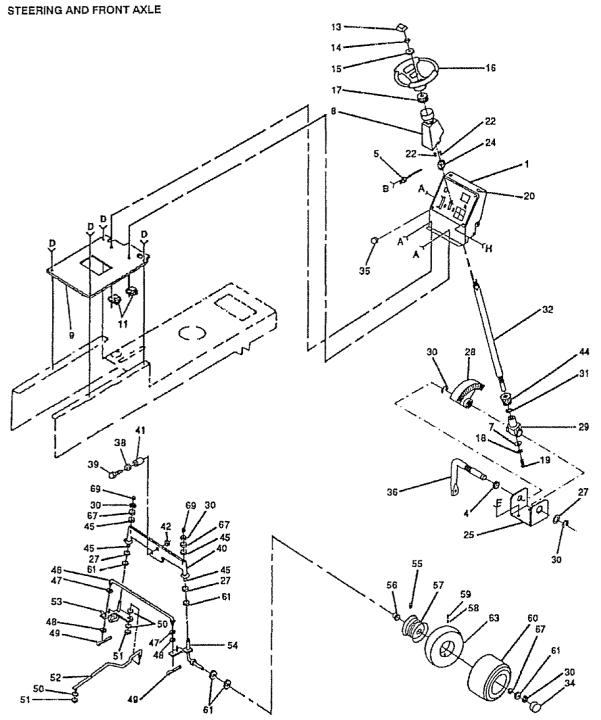
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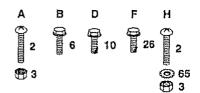
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 129795 2 105731X 4 STD551143 5 71130720 6 125907X 7 122983X 8 125593X 9 101326L 10 123528X 11 STD551131 12 129921 14 17490620 15 STD551125 16 127050X 17 STD523727 18 STD541437	Engine, 12.5 HP, Tecumseh Model Number 143.416082 Pulley, Engine * Washer, Lock, Heavy Hellcal Spring Bolt, Hex 7/16-20 x 1-1/4 V-Belt, Drive Muffler Gasket Deflector, Muffler Screw, Cap, Hex 5/16-18 x 5/8 * Washer, Lock 5/16 Keeper, Belt, Engine Screw, Hex Washer Hd., Thd. Roll. 3/8-16 x 1-1/4 * Washer, Lock, Heavy Helical Spring Transaxle, Tecumseh, 5 Speed, 930 Peerless * Bolt, Hex 3/8-16 x 2-3/4 * Nut, Crownlock 3/8-16	56 127272X 57 110437X 58 106888X 59 73350600 60 19131316 61 125638X 62 124236X 63 122424X 64 8883R	Spring, Return, Clutch Washer, Hardened Ring, Klip Link, Clutch * Pin, Cotter 1/8 x 3/4 Bushing, Pivot Rod, Brake Spring, Rod, Brake Nut, Jam 3/8-16 Washer 13/32 x 13/16 x 16 Gauge Rod, Brake, Parking Cap, Plunger Shaft, Foot Pedal Cover, Pedal Washer 25/32 x 1-1/4 x 16 Gauge * Pin, Roll 3/16 x 1 Bearing, Nyion Key, Square 2.5 x 1845/1865 Pipe, Oli Drain Cap, Valve
19 1200003 20 123666X 21 1200028 22 109167X 23 STD523710 24 17490512 26 127275X 27 73530400 28 127292 X	E-Ring Pulley, Transaxle Ring, Retainer Bracket, Transaxle * Bolt, Hex 3/8-16 x 1 Screw, Hex Washer Hd , Thd Roll. 5/16-18 x 3/4 Keeper, Belt, L.H. Nut, Nylok 1/4-28 Shaft, Shifter Assembly	71 65139 72 123969X 73 106108X 74 109502X 76 12000001 77 121520X 78 126591X 79 110422X 80 105706X	Stem, Valve Tire, Rear Rim Assembly, Rear Spacer E-Ring Strap, Torque, Transaxle Washer 53 x 1.25 x .059 Spring, Brake Bearing
34 121748X 35 106933X 36 127270 37 71040412 38 106362X	Spring, Compression Rod, Tie Keeper, Belt, R.H. * Bolt, Hex 3/8-16 x 3/4 Washer 25/32 x 1-5/8 x 16 Gauge Knob, Shift Rod, Shift Bolt, Hex 1/4-28 x 3/4 Washer, Shift Plate * Pin, Cotter 1/8 x 1 Washer 17/32 x 3/4 x 16 Gauge	B1 123205X B2 17030808 B3 123782X 84 130849 85 19091210 86 11050600 87 7152J 86 121851X 91 104767X 95 11150400	Retainer, Belt Screw, Spider Lock #8-18 x 1/2 AABTPS Spring, Torsion Arm, Shilt Washer 9/32 x 3/4 x 10 Gauge Washer, Lock, External Tooth 3/8 Tube, Tire Spark Arrester Cap, Axle Washer, Lock, Internal Tooth 1/4
 41 104777X 42 17490612 43 19131312 44 129796 45 109070X 46 4470J 47 123674X 48 127783 49 123789X 	Retainer, Belt Screw, Hex Washer Hd.,Thd. Roll. 3/8-16 x 3/4 Washer 13/32 x 13/16 x 12 Gauge Fan, Pump, Oil Retainer, Belt Spacer Idler, Flat Idler, Flat Idler, Groove, Plastic Bellcrank Assembly * Bolt, Hex 3/8-16 x 1-1/2	96 74760540 97 19111116 98 73680500 99 127285X 100 2228M 101 19211616 129783 108631X * STANDARD HA	Bolt, Hex Fin. 5/16-18 UNC x 2-1/2 Washer 11/32 x 11/16 x 16 Ga Nut, Crownlock 5/16-18 Strap, Torque, L.H. Key, Woodruff #9 Washer 21/32 x 1 x 16 Ga Decal, Logo, Engine Decal, II RDWARE PURCHASE LOCALLY
	A B D E F G	NOTE: All compo 1 inch = 2 H K	L M

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791

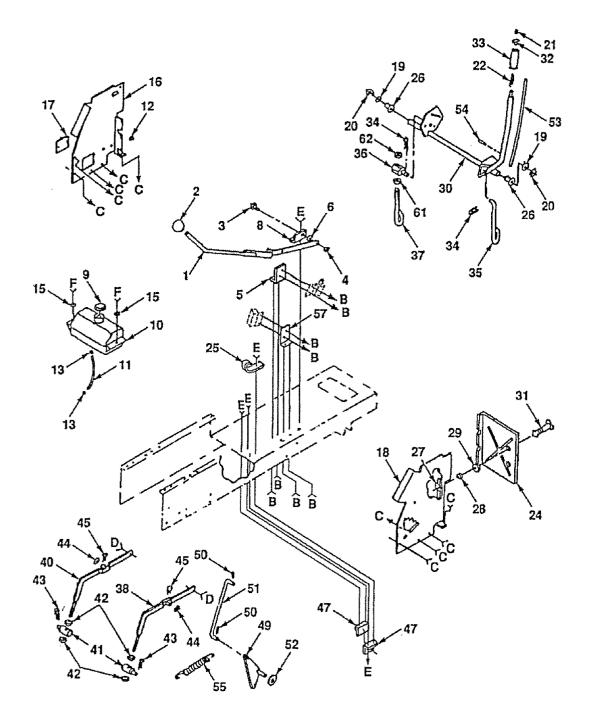


12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791 STEERING AND FRONT AXLE

	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
	NO. 126604X010 74180512 73510500 109816X 124434X STD522510 126684X 124417X 126595X010 17490608 126471X 100710L STD541350 100712K 100713N 100711L STD551125 71070410 126938X	Dash Screw, Truss Head 5/16-18 x 3/4 Nut, Keps 5/16-18 Nyllner, Snap-in Control, Throttle * Screw, Hex, Thd. Cut. 1/4-20 x 5/8 Washer 1/4 x 5/8 x 16 Gauge Boot, Steering Shaft Saddle Screw, Hex Washer Hd., Thd Roll 3/8-16 x 1/2 Clip, Insulated Insert, Steering Wheel	NO. 4124456789012334556789013555555566135567	NO. 110438X 73601000 124037X 3366R 105715X 120754X 19131416 76020412 STD551137 73610600 128122 105656X 105654X 278H 9040H 1065732X 59192 65139 124157X 19272016 59904 STD651231 121748X 121232X	Spacer, Bearing, Front Axle Locknut, Flange 5/8-11 Gear, Pinion Bearing Rod, Tie Bushing Washer 13/32 x 7/8 x 16 Gauge Pin, Cotter 1/8 x 3/4
30 31 32	12000029 57079 124038X	Ring, Klip Washer, Hardened	* ST/	ANDARD HAF	DWARE PURCHASE LOCALLY
34 35 36	124038X 5479J 124033X 19212010 74761060 105669X	Shaft, Steering, Lower Cap, Axie Plug, Button Shaft, Pitman Washer 21/32 x 1-1/4 x 10 Gauge Bolt, Hex 5/8-11 x 3-3/4 Axie, Front	NOT	E: All compon 1 Inch = 25	ent dimensions given in U.S. Inches .4 mm



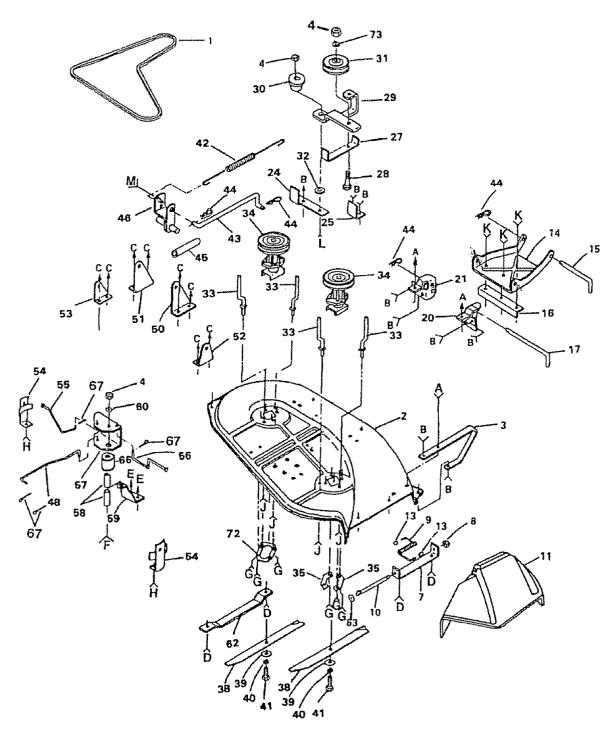
12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791 LIFT ADJUSTMENT



12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791 LIFT ADJUSTMENT

	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	124429X	Lever, Clutch, Mower	33	125631X	Grip, Handle
2	106932X	Knob	34	4939M	Retainer, Spring
3	106451X	Bolt, Shoulder	35	110029X	Link, Lift
4	73680600	Nut, Crownlock 3/8-16	36	110447X	Trunnion, Lift
5	106452X	Bracket, Switch, Interlock	37	110448X	Link, Lift, Adjustable
6	19171516	Washer 17/32 x 15/16 x 16 Gauge	38	121598X	Arm, Suspension, R H
7	17021008 106447X	Screw, Hex, Tapping #10-24	39 40	105848X 121599X	Bolt, Shoulder 3/8-16
8 9	123549X	Support, Lever, Clutch Cap, Fuel	40	106308X	Arm, Suspension, L.H. Trunnion, Lift, Lower
10	109202X	Tank, Fuel	42	STD541050	*Nut, Hex 1/2-13
11	101335K	Line, Fuel	43	9135R	Retainer, Spring
12	124028X	Grommet	44	19171516	Washer 17/32 x 15/16 x 16 Gauge
13	123487X	Clamp, Hose	45	4921H	Retainer, Spring
14	17490612	Screw, Hex Washer Hd., Thd. Roll	47	106444X	Bracket, Bellcrank
		3/8-16 x 3/4	48	STD523707	* Bolt, Hex 3/8-16 x 3/4
15	19091416	Washer 9/32 x 7/8 x 16 Gauge	49	109728X	Bellcrank Assembly
16	122795X	Panel, Dash, L.H.	50	STD561210	* Pin, Cotter 1/8 x 3 4
17	121794X	Cover, Access	51	124444X	Rod, Clutch, Primary
18	124031X012		52		Washer 13/32 x 7/8 x 10 Gauge
19	19211416	Washer 21/32 x 7/8 x 16 Gauge	53	122514X	Rod, Assembly, Lever
	STD581062		54	105767X	Pin, Groove
21	122365X	Bulton, Plunger	55	124446X	Spring, Extention
	122512X	Spring, Compression	57	108236X	Bracket, Switch
23	17490412	Screw, Hex Washer Hd., Thd. Roll.	59	110739X	Washer, Spring
~ ~	1057001	1/4-20 x 3/4			Nut, Flangelock 3/8 x 16
	105736X	Shield, Heat		73360700	Nut, Hex, Jam 7/16-20
	5320R 120183X	Clip, Insulated		73710700	Nut, Crownlock 7/16-20
20	105839X	Bearing, Nylon Becontacle, 1/4 Turn	* *	122581X	Couple, Lift, Lever
28	105838X	Receptacle, 1/4 Turn Retainer, 1/4 Turn	* ст		DWARE PURCHASE LOCALLY
		*Washer 9/32 x 5/8 x 16 Ga.	01		
	122507X	Shaft, Lift			
31	123650X	Stud, 1/4 Turn	NOT		ent dimensions given in U.S. inches
32	122364X	Plunger	101	1 Inch = 25	
~~~~					* 7 549866

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791 38" MOWER



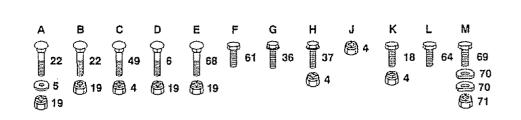
# 12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791

38" MOWER

	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	106085X	V-Belt	41	STD623715	*Boll, Hex 3/8-24 x 1-1/2 G rade 5
2	121259X	Housing	42 43	108250X	Spring, Extension
3	8417J	Runner, R.H.	43 44	108235X 4921H	Rod, Clutch, Mower Spring, Retainer
4 5	73680600 19111216	Nut, Crownlock 3/8-16 Washer 11/32 x 3/4 x 16 Gauge	45	49210 6404J	Spacer
6	72140505	Bolt, Carriage 5/16-18 x 5/8	46	124066X	Rock Shaft Assembly
7	105896X	Bracket, Deflector	48	108247X	Rod, Brake, Primary
8	110452X	Nut, Push	49	72140606	Bolt, Carriage 3/8-16 x 3/4
ğ	106734X	Spring, Deflector	50	108243X	Bracket, Pivot, R.H.
10	106735X	Rod, Hinge	51	108241X	Bracket, Pivot, L.H.
11	106736X	Shield, Deflector	52	105857X	Bracket, Suspension, Rear, R.H.
13	105304X	Cap, Spring	53	108673X	Bracket, Suspension, Rear, LH
14	105662X	Link, Parallel	54	106578X	Brake Assembly
15	105744X	Pin, Hinge, Front	55	106463X	Rod, Brake, Secondary, L H
16	105872X	Stop, Link	56	108249X	Rod, Brake, Secondary, R H
17	109835X	Pin, Hinge, Rear	57	106456X	Bracket, Brake, Pivot
18	STD523707	* Bolt 3/8-16 x 3/4	58	100672K	Spacer, Brake
19	73680500	Nut, Crownlock 5/16-18	59	100673L	Bracket, Support
20	109598X	Bracket, Lift, R.H.	60 61	19131614	Washer 13/32 x 1 x 14 Gauge
21 22	109597X STD533107	Bracket, Lift, L.H.	62	74760688 7631J	Bolt 3/8-16 x 5
24	109503X	*Bolt, Carriage 5/16-18 x 3/4 Support, Arm	62 63	19111016	Runner, L.H. Washer 11/32 x 5/8 x 16 Gauge
25	109504X	Stop, Deck, Front		72140610	Bolt 3/8-16 x 1-1/4
27	126756X	Guide, Belt	66	122314X	Spacer
28	74760632	Bolt 3/8-16 x 2		STD560907	
29	127163X	Arm. Idler		72110506	Bolt,Carriage 5/16-18 x 3/4
30	106902X	Spacer, Retainer	69	74760412	Bolt, Hex 1/4-20 x 3/4
31	123688X	Pulley, Idler	70	109893X	Washer, Special
32	106513X	Washer, Wear 1/16	71	73680400	Nut, Crownlock 1/4-20
33	102669X	Keeper, Belt		110445X	Plate, Support, Mandrel, L.H.
34	121687X	Mandrel Assembly		STD551037	*Washer_13/32 x 13/16 x 16 Gauge
35	100668L	Plate, Support, Mandrel		122215X	Mower Assembly, Complete
36	17490614	Screw, Hex Washer Head		105814X	Decal, V-Belt, Mower Drive
	13100000	3/8-16 x 7/8		3713J	Decal, Instruction, Caution
37	17490620	Screw, Hex Washer Head	**	121343X	Decal, Warning Decal, Spicity Standard (Not
38	121263X	3/8-16x 1-1/4 Blade	~ •	*****	Decal, Safety Standard (Not
39	19132012	Washer 13/32 x 1-1/4 x 12 Gauge			Serviced)
40		*Washer,Lock 3/8	* STI		IDWARE PURCHASE LOCALLY
- <b>TV</b>	0,000110/	a sound that found and a pair of	Q 17		tavery so is same

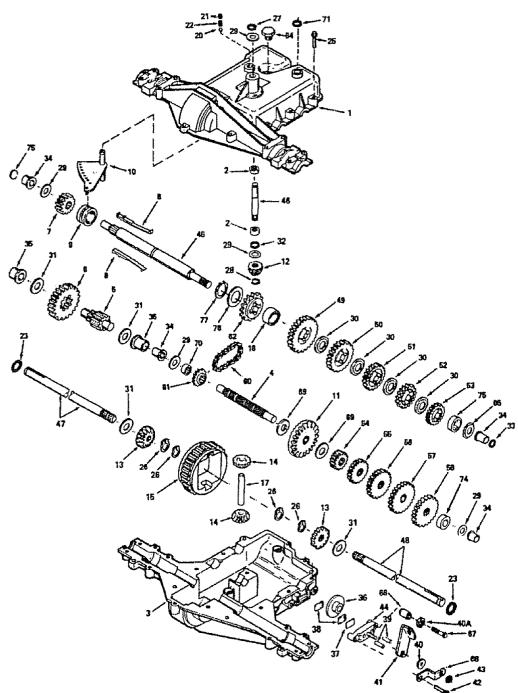
#### ANDARD HARDWARE - - PURCHASE LOCALLY

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



12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791 PEERLESS TRANSAXLE - MODEL NUMBER 143.930-009

TRANSAXLE

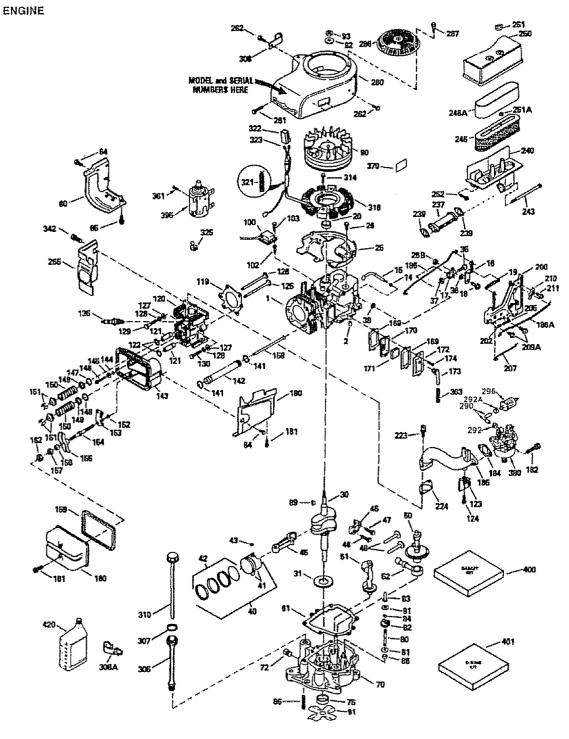


### 12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791 PEERLESS TRANSAXLE - MODEL NUMBER 143.930-009

#### TRANSAXLE

	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	772108	Cover, Transaxle	41	790047	Lever, Brake
2	780086	Bearing, Needle	42	792073	Screw, Flanged Hex Head, Thread
3	770102	Case, Transaxle			Forming 1/4-20 x 1-1/4
4	776260	Shaft, Counter	43	792075	Locknut 5/16-24
5	776219	Shaft & Pinlon Assembly, Output	44	790025	Holder, Brake Pad
6	778139	Gear, Output	45	776315A	Shaft, Brake, 4-keyed
7	778136	Gear, Spur, 15 Teeth	46	776135	Shaft, Input
8 9	792136 784352	Key Collar, Shifter	47 48	774690 774691	Axle, 11-15/16
10	784355	Rod & Fork Assembly, Shift	40	778191	Axle, 16-1/2
11	778229	Gear, Bevel, 42 Teeth	50	778124A	Gear, Spur, 37 Teeth Gear, Spur, 30 Teeth
	778113A	Bevel Pinion, Input	51	778123A	Gear, Spur, 25 Teelh
	778221	Gear, Bevel	52	778122A	Gear, Spur, 22 Teeth
	778068	Gear, Bevel Pinion	53	778209	Gear, Spur, 19 Teeth
	778260	Gear, Ring	54	778230	Gear, Spur, 12 Teeth
	786139	Pin, Drive		778126A	Gear, Spur, 20 Teeth
18	786102	Spacer, Neutral		778127A	Gear, Spur, 25 Teeth
20	792077	Ball, Steel, 5/16 diameter	57	778128A	Gear, Spur, 28 Teeth
21	792078	Screw, Set 3/8-16 x 3/8	58	778163	Gear, Spur, 31 Teeth
	792079	Spring		786081	Chain, Roller (#41 chain, 24 links)
	788061	Ring, Felt	61	786082	Sprocket, 9 Teeth
25	792073	Screw, Flanged Hex Head, Thread		786123	Sprocket, 18 Teeth
		Forming 1/4-20 x 1-1/4		792074	Plug, Hex Head, Threaded 9/16-18
	792125	Ring, Retainer (4 req., pkg. of 2)		780139	Washer, Thrust
	792035	Ring, Retainer		786067	Spacer
	788040	Ring, Retainer	67	792085	Screw, Flanged Hex Head, Thread
	780072	Washer, Thrust	~~	300000	Forming 1/4-20 x 2-1/4
30	780108	Washer, Thrust		786086	Bracket, Brake Lever
	780001 792001	Washer "O" Ring		780051 786118	Washer, Thrust
	788051	Seal, Square Cut		788069	Spacer Soal Square Cut
	780105A	Bushing, Flanged		786116	Seal, Square Cut Disk
	780118A	Bushing, Flanged		786071	Spacer
	790003	Disk, Brake		786072	Spacer
	790007	Plate, Brake Pad		780090	Washer, Thrust
	790006	Pad, Brake		788075	Ring, Retaining
		Pin, Dowel	.,	1 w w W 7 W	
			NOTE	E: All compone	nt dimensions given in U.S. inches
40A	792128	Washer, Flat		1 Inch = 25 4	

#### 12.5 HP 38" RIDING LAWN TRACTOR -- MODEL NUMBER 917.254791 ENGINE TECUMSEH - MODEL NUMBER143.416082

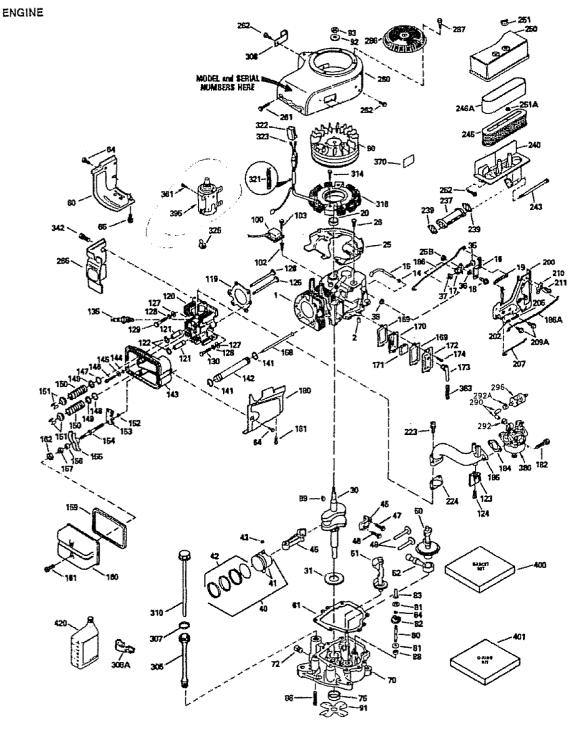


#### 12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254791 ENGINE TECUMSEH - MODEL NUMBER 143.416082

ENGINE

	PART	DESCRIPTION		PART	DECONSTICU
NU.	NO.	DESCRIPTION	NU.	NO.	DESCRIPTION
	000004	Ordinates Associated Man 0.00	~ 4	0	the former and program to
1	35323A	Cylinder Assy. (Incl. Nos. 2 & 20)	81	35479	Washer, Flat
2	27652	Pln, Dowel	82	35321	Gear Assy., Governor
	28277	Washer, Flat	83	35322	Spool, Governor
15	35324	Rod, Governor	84	29193	Ring, Retaining
16	35520	Lever, Governor	86	650833	Screw, Hex washer hd. Powerlok,
17	29916	Clamp, Throttle lever			1/4-20 x 1-3/16
18	650548	Screw, Hex washer hd., 8-32 x 5/16	88	31707A	Spacer, Governor gear
19	35521	Spring, Control	89	32589	Key, Flywheel
20	35319	Seal, Oil	90	611093	Flywheel
 25	35326	Baffle, Blower housing	91	35935	Fan, Crankshaft
25B	30322	Nut & Lockwasher 8-32	92	650880	Washer, Lock
26	650561	Screw, Hex washer hd. Durlok,		650881	Nut, Flywheel
		1/4-20 x 5/8		35135	Solid State Assy.
30	35336A	Crankshaft Assy. (Counterbalance)		650872	Stud, Solld state assy
31	35327	Gear, Counterbalance		650814	Screw, Torx hex washer hd. Sems,
	29826	Screw, Hex washer hd., 10-32 x 3/4	.00	000014	10-24 x 1
	29918	Washer, E.T. Lock	119	35854	* Gasket, Cylinder head
37	29216	Nut, Lock 10-32		35307	Head Assy, Cylinder
	29642	Ring, Retaining		730218	Valve Guide Kit (Incl. 2 of No. 122)
40	35776	Piston, Pin & Ring Assy (Std.) (Incl.		792035	Ring, Retaining
-167	00170	Nos. 41, 42 & 43)		35288	Brace, Intake pipe
40	35777	Diston Dia & Dian Accu / DiD over		650738	Screw, Hex washer spinlock hd.
-+0	00/17	Piston, Pin & Ring Assy. (.010 over- size) (Incl. Nos. 41, 42 & 43)	124	630736	brood forming 1/4 00 v 5/0
40	35778	Distan Din & Ding Acay (000 over	100	25200	thread forming, 1/4-20 x 5/8
40	30/70	Piston, Pin & Ring Assy. (.020 over-		35308	Valve, Exhaust (Std.) Valve, Exhaust (1/32" oversize)
	05770	size) (Incl. Nos. 41, 42 & 43)		35433	Valve, Exhaust (1/32" oversize)
41	35773	Piston & Pin Assy. (Std.) (Incl. No.		35309	Valve, Intake (Sid.)
**	army .	43)		35432	Valve, Intake (1/32" oversize)
41	35774	Piston & Pin Assy. (.010 oversize)		650691	Washer, Flat
د م		(Incl. No. 43)		650690	Washer, Belleville
41	35775	Piston & Pin Assy. (.020 oversize)		650746	Screw Hex hd. 5/16-18 x 3/8
40		(Incl. No. 43)		650692	Screw Hex hd. 5/16-18 x 1-3/4
42	35779	Ring Set Piston (Std.)	135	34046	Resistor Spark plug (Champion RL-
	35780	Ring Set, Piston (.010 oversize)			86C or equivalent)
42	35781	Ring Set, Piston (.020 oversize)		33481	t* "O" Ring
	35772	Ring, Piston pin retaining		35475	Tube, Push rod
45	35330A	Rod Assy, Connecting (Incl. Nos.		35310	Housing, Rocker arm
	-	46 & 47)	144	33484	1* "O" Ring
	650908	Bolt, Connecting rod		650168	Washer, Flat
	650882	Bolt, Connecting rod	146	32610A	Screw, Flanged hex hd., 1/4-20 x
	35313	Lifter, Valve			29/32
50	35314A	Camshaft (Mechanical	147	33509	t* "O" Ring (Intake)
		Compression Release) (Incl. No.	148	34410	t* "O" Ring (Exhaust)
		48)	149	33510	Cap, Valve spring
51	35315	Weight Assy., Counterbalance	150	33507	Spring, Valve
52	31356	Pump Assy., Oll Extension, Blower housing		33508	Cap, Valve spring keeper
60	35316	Extension, Blower housing		35295	t* "O" Ring
		Gasket, Mounting flange		35296	Guide, Push rod
64	30063	Screw, Hex washer hd. Sems,		650878	Stud, Rocker arm
		1/4-20 x 1/2		35297	Arm Rocker
65	650128			35298	Bearing, Rocker arm
	35711A	Flange, Mounting (Incl. Nos. 72, 75,		28264	t* Nut Assy., Lock (Incl. No. 162)
		80)		35466	Rod, Push
72	31927	Plug, Oli drain	159	35299B	t* "O" Ring Assy, (Incl. No. 161)
	35319			35300	Cover, Rocker arm housing
	35712			650879	t* Screw, Truss hd. w/sealing
			101	000013	lockwasher, 8-32 x 1/2
					warmadia, gowa ija

### 12.5 HP 38" RIDING LAWN TRACTOR` - - MODEL NUMBER 917.254791 ENGINE TECUMSEH - MODEL NUMBER143.416082



#### 12.5 HP 38" RIDING LAWN TRACTOR -- MODEL NUMBER 917.254791 ENGINE TECUMSEH - MODEL NUMBER 143.416082

ENGINE

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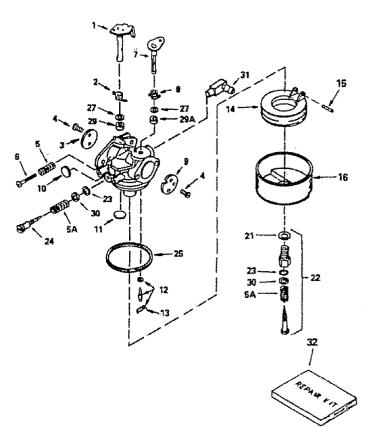
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KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
162       650903       1         169       27896A       1         170       28423       1         171       28424       1         172       28425       1         173       35350       1         174       650128       180         180       36301       1         181       650517       1         184       33263       1         185       35856       1         186       35934       1         186A35523       200       35524         202       33802       205         205       65077       207         205       65077       207         207       35525       209A 650902         210       27793       211         223       792028       224         224       33515A       4         237       35286       4	<ul> <li>* Nut, Hex Jam</li> <li>* Gasket, Valve cover Body, Breather Element, Breather</li> <li>Element, Breather</li> <li>Cover, Valve spring box</li> <li>Tube, Breather</li> <li>Screw, Hex hd. Sems, 10-24 x 1/2</li> <li>Extension, Blower housing</li> <li>Screw, Hex hd. Sems, 10-24 x 1/2</li> <li>Screw, Itake</li> <li>Link, Governor</li> <li>Link, Governor</li> <li>Link, Choke</li> <li>Bracket Assy., Override control</li> <li>(Incl. Nos. 202, 205)</li> <li>Spring Compression</li> <li>Screw, Fil. hd., 6-32 x 21/32</li> <li>Link, Control bracket</li> <li>Screw, Hex washer hd., Sems, 10-32 x 7/16</li> <li>Clip, Conduit</li> <li>Screw, Hex washer hd Sems, 10-32 x 3/8</li> <li>Screw, Hex hd. Sems, 5/16-18 x 7/8</li> <li>* Gasket, Intake plpe</li> <li>Adapter, Alr cleaner</li> <li>* Gasket, Air cleaner elbow</li> <li>Body Assy., Air cleaner (Incl. No. 239)</li> </ul>	262       29747B         265       35290         286       35792         287       650936         290       30705         292       26460         2923       35864         296       34279B         307       35499         308       33997         308A       35437         316       611113         321       610935         322       610921         323       610922         325       27275         342       650273         361       30063         363       34148         370       34346         380       632490         395       35763A         400       35855         401       35332         420       730225	DESCHIPTION Screw, Hex hd. Sems, 5/16-24 x 21/32 Cover, Cylinder head Screen, Debris Screw, Hex washer hd. shoulder 10-32 x 13/32 Line, Fuel Clamp Fuel filter to fuel line Filter, Fuel (Incl. Nos 292 & 292A) Tube, Oil fill "O" Ring Clip, Oil fill tube Clip, Oil fill tube Clip, Oil fill tube Dipstick, Oil Screw, Hex hd. Sems, 1/4-20 x 3/4 Coll Assy., Alternator (3 Amp D.C.) (Incl. Nos 321, 322 & 323) Diode Connector, Body Terminal, Female Clip, Wire Screw, Hex hd. Sems, 5/16-18 x 5/8 Screw, Hex washer hd. Sems, 1/4-20 x 1/2 Spring, Coll Decal, Instruction Carburetor (Incl. No. 184) Starter Motor (12 Volt) Gasket Set (Incl. Items marked *) "O" Ring Kit (Incl. items marked *) "O" Ring Kit (Incl. items marked *) "O" Ring Kit (Incl. items marked *) "O" Ring Screw; 1950 - 2250 * Indicates Parts included in Gasket Set, Ref. No. 400. ‡ Indicates Parts Included in "O" Ring Kit, Ref. No. 401.
261 30063	Screw, Hex hd Sems, 1/4-20 x 1/2		

12.5 HP 38" RIDING LAWN TRACTOR -- MODEL NUMBER 917.254791 ENGINE TECUMSEH - MODEL NUMBER143.416082

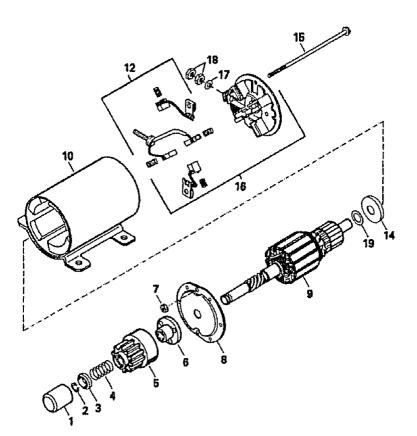
ENGINE



	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
	632490	Carburetor	15	631024	* Shaft, Float
1	632471	Shaft & Lever Assy. Throttle	16	631867	* Bowl, Float
2	632244	Spring, Throttle return	21	27110	Gasket, Bowl-to-body
3	632517	Shutter, Throttle	22	632239	<ul> <li>* Adjustment Screw Assy., Main</li> </ul>
4	650506	Screw, Rd. hd , 4-40 x 3/16			adjustment screw (Incl No's 5A,
5	630766	Spring, Idle regulating screw			21, 23, & 30)
5A	630738	Spring, Main adjustment screw	23	630740	"O" Ring
6	650417	Screw, Idle regulating		632281	* Screw, Idle adjustment
7	632472	Shaft & Lever Assy , Choke		631028	* Gasket, Bowl-to-body
8	632473	Spring, Return		631184	Washer
9	632429A	Shutter, Choke		631971	Seal, Dust
10	630748	* Plug, Welch		631183	Seal, Dust
11	631027	* Plug, Welch		630739	Washer, Flat
12	631021	* Inlet Needle, Seat & Clip Assy.		631775	Filting, Fuel
		(Incl. No. 13)	32	632347	Repair Kit (Incl. Items marked *)
13	631022	Clip, Inlet needle			
14	632019	Float, Carburetor			

#### REPAIR PARTS 12.5 HP 38" RIDING LAWN TRACTOR -- MODEL NUMBER 917.254791 ENGINE TECUMSEH - MODEL NUMBER 143.416082

ENGINE

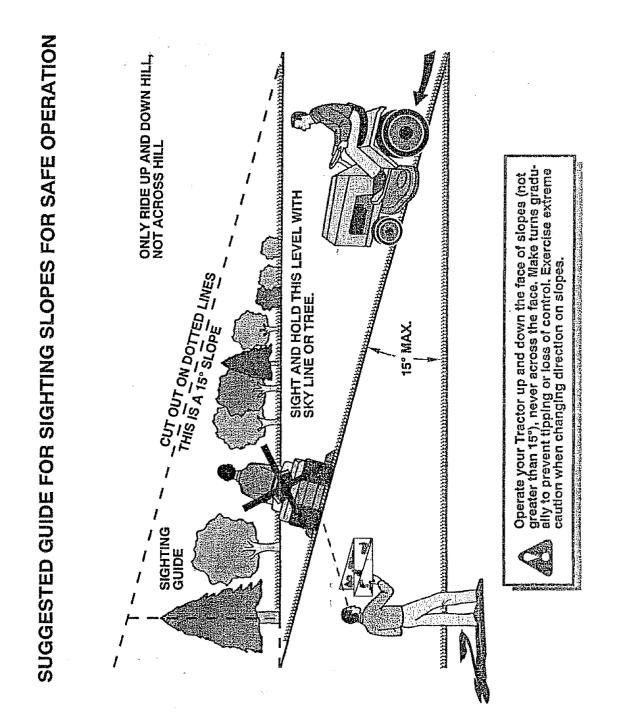


key p. No. n			KEY NO.	PART NO.	DESCRIPTION
1 30 2 30 3 30 4 30 5 30 6 35 7 30 8 35	3451 3842 3430 3431 3432 5893 3450 5894	Starting Motor, Complete Cover, Dust Ring, Retainer Retainer, Spring Spring, Anti-drift Gear Nut & Retainer (Incl. No. 2) Nut, Lock Cap Assy., Drive end Armature	10 12 14 15 16 17 18	35900 35896 35897 35898 35899 650168 650864 590500	Housing Assy Brush & Spring Kit Washer, Thrust Bolt, 10-32 x 4-11/64 Cap & Brush Card Assy., Commutator End (Incl. Nos. 12, 14, 17, & 18) Washer, Flat Nut, Hex Washer Thrust

# SERVICE NOTES

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SEARS owner's manual	<b>CRAFTSMAN</b> 12.5 HP OHV ELECTRIC START 38" MOWER 5 SPEED TRANSAXLE LAWN TRACTOR
MODEL NO. 917.254791	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 of the engine. All parts listed herein may be ordered from any Sears Service Centre
HOW TO ORDER REPAIR PARTS	and most Retail Stores. WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOW- ING INFORMATION: PRODUCT - LAWN TRACTOR MODEL NUMBER - 917.254791 ENGINE MODEL NUMBER - 143.416082 PART NUMBER PART DESCRIPTION Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians profes- sional 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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