SEARS

# CRAFIZMAN

MODEL NUMBER 917.256563 OWNER'S MANUAL

Assembly

Operation

Customer Responsibilities

Service and Adjustments

Repair Parts





CAUTION: Read and follow all safety rules and instructions before operating this equipment.

FOR CONSUMER ASSISTANCE HOT LINE, CALL THIS TOLL FREE NUMBER: 1-800-659-5917

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# SAFETY RULES

# Safe Operation Practices for Ride-On Mowers



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

#### I. GENERAL OPERATION

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

#### II. SLOPE OPERATION

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

#### DO:

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

#### DO NOT:

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

#### III. CHILDREN

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

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

#### IV. SERVICE

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



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



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

# A WARNING A

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

**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 Authorized Service Center/Department. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

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

MODEL NUMBER SERIAL NUMBER	917.256563
DATEOFPUR	CHASE
ON A PLATE YOU SHOULD DATE OF PUR	ND SERIAL NUMBERS WILL BE FOUND UNDER THE SEAT. RECORD BOTH SERIAL NUMBER AND RCHASE AND KEEP IN A SAFE PLACE 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 tractor.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual.

**WARNING:** This tractor 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.

# PRODUCT SPECIFICATIONS

HORSEPOWER:	19.0
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF/SG):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	3.0 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RJ19LM STD361458
VALVE CLEARANCE:	INTAKE: .004"006" EXHAUST: .007"009"
GROUND SPEED (MPH):	FORWARD:  1st 1.1 2nd 1.5 3rd 2.3 4th 3.5 5th 4.4 6th 5.7 REVERSE: 1.7
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R
BLADE BOLT TORQUE:	30-35 FT. LBS.

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/Department (See REPAIR PARTS section of this manual).

### LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

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

This Warranty does not cover:

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

### LIMITED 90 DAY WARRANTY ON BATTERY

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

IN-HOME WARRANTY SERVICE ON YOUR CRAFTSMAN RIDING EQUIPMENT IS AVAILABLE AT NO-CHARGE FOR 30 DAYS FROM THE DATE OF PURCHASE. PLEASE CONTACT YOUR NEAREST SERVICE CENTER. AFTER 30 DAYS FROM THE DATE OF PURCHASE, WARRANTY SERVICE IS AVAILABLE BY TAKING YOUR CRAFTSMAN RIDING EQUIPMENT TO YOUR NEAREST SEARS SERVICE CENTER. (IN-HOME WARRANTY SERVICE WILL STILL BE AVAILABLE AFTER 30 DAYS FROM THE DATE OF PURCHASE BUT A STANDARD TRIP CHARGE WILL APPLY.) THIS WARRANTY APPLIES ONLY WHILE THIS PRODUCT IS IN THE UNITED STATES.

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

SEARS, ROEBUCK AND CO., D/817 WA, HOFFMAN ESTATES, IL 60179

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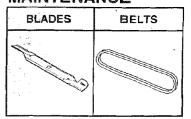
# **ACCESSORIES AND ATTACHMENTS**

These accessories and attachments were available through most Sears retail outlets and service centers when the tractor was purchased. Most Sears stores can order these items for you when you provide the model number of your tractor.

#### **ENGINE**

100				
SPARK PLUG	GAS CAN	ENGINE OIL	FUEL STABILIZER	AIR FILTER

### MAINTENANCE



#### PERFORMANCE

Sears offers a wide variety of attachments that fit your tractor. 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 tractor.

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.

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

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

**BUMPER** protects front end of tractor from damage.

**CARTS** make hauling easy. Variety of sizes available, plus accessories such as side panel kits, tool caddy, cart cover, protective mat and dolly.

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

EASY OIL DRAIN VALVE makes oil changes easier, faster.

FRONT NOSE ROLLER canters in front of mower deck to reduce chances of "scalping" on uneven terrain.

**GANG HITCH** lets you tow 2 or 3 pull-behind attachments at once, such as sweepers, dethatchers, aerators (not for use with rollers, carts or other heavy attachments).

**GAUGE WHEELS** on both sides of the mower deck reduce chances of "scalping" on uneven terrain. For mower decks not so equipped.

MULCH RAKE/DETHATCHER loosens soil and flips thatch and matted leaves to lawn surface for easy pickup. Twenty spring tine teeth. Useful to prepare bare areas for seeding. Available for front or rear mounting. HIGH PERFORMANCE REEL-ACTION SPRING TINE DETHATCHER covers 36-inch wide path and tosses thatch into large hopper. Mounts behind tractor.

MULCHING CLOSE-OUT PLATE KIT, once installed, lets you mulch, discharge or bag clippings (bagger optional) without changing blades. For models not equipped as 3-in-1 Convertible mowers. See "MOWER" in the Repair Parts section of this manual.

**RAMP TOPS AND FEET** let you load and unload tractor from a pickup truck. Use with 2 x 8 or 2 x 10 lumber.

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

**SNOW BLADE** for snow removal only. 14-inch high, 48-inch wide blade clears 42-inch path when angled left or right. Raises, lowers with side lever. Adjustable skids; replaceable, reversible scraper bar. (Use with tire chains and wheel weights and/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 and wheel weights and/or rear drawbar weight.)

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

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

SWEEPERS let you collect grass clippings and leaves.

TILLER has 5 hp engine and 36-inch swath to prepare seed beds, cultivate and compost garden residue. Tiller has its own built-in lift and depth control system and does NOT require a sleeve hitch. Fits any lawn, yard or garden tractor. Simply hook up to the tractor drawbar and go! **Optional accessories** convert unit for dethatching, aerating, hilling...without tools.

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

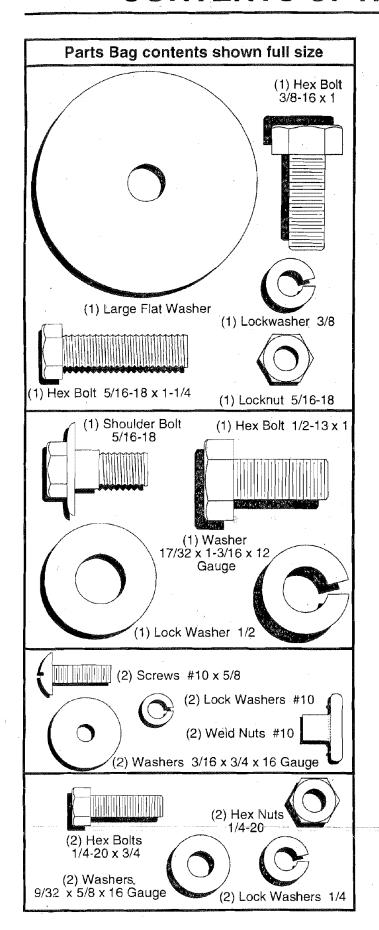
TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl sides and windshields for use as sun protector in summer. Optional accessories include: tinted/tempered solid safety glass windshield with hand operated wiper; 12-volt amber caution light for mounting on cab top.

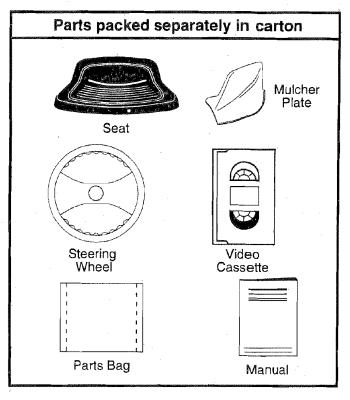
VACS for powerful collection of heavy grass clippings and leaves. Optional wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

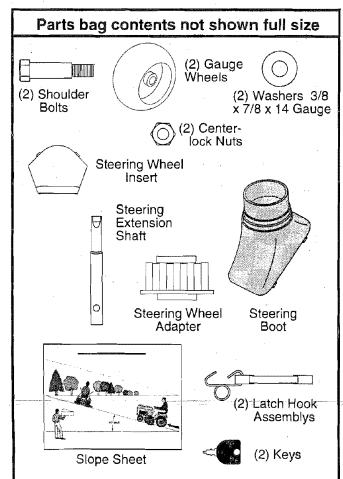
WEIGHT BRACKET for drawbar for snow removal applications. Uses (1) 55 lb. weight.

WHEEL WEIGHTS for rear wheels provide needed traction for snow removal or dozing heavy materials.

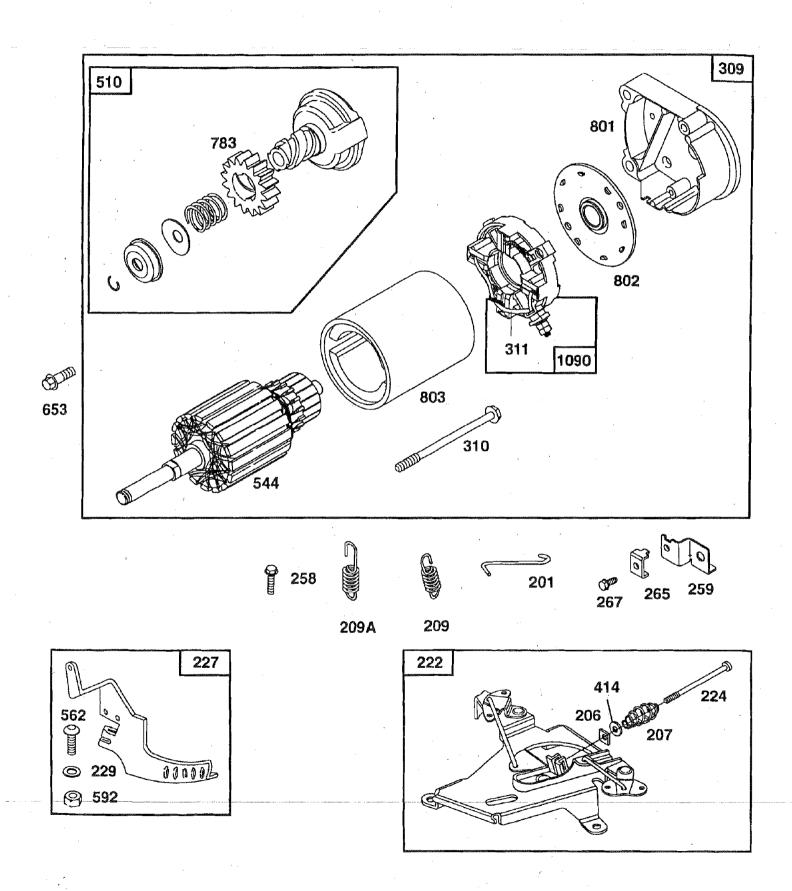
# **CONTENTS OF HARDWARE PACK**







# TRACTOR - - MODEL NUMBER 917.256563 BRIGGS & STRATTON ENGINE - MODEL NUMBER 42A707, TYPE NUMBER 1624-01



# **ASSEMBLY**

Use terminal access doors for:

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

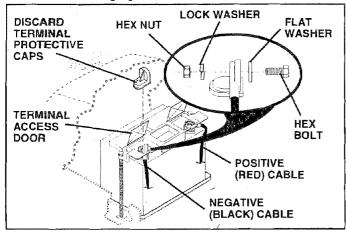


FIG. 2

### **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 locsely. 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.
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment bolt securely.

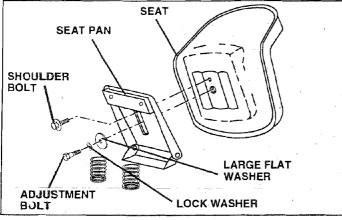


FIG. 3

### **CHECK TIRE PRESSURE**

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

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

### **CHECK DECK LEVELNESS**

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

# CHECK FOR PROPER POSITION OF ALL BELTS

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

#### CHECK BRAKE SYSTEM

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

# ASSEMBLE GAUGE WHEELS TO MOWER DECK (See Fig. 4)

Assemble gauge wheels with tractor on a flat level surface.

- Adjust mower to desired cutting height (See "TO AD-JUST MOWER CUTTING HEIGHT" in the Operation section of this manual).
- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole with shoulder bolt, 3/8 washer and 3/8-16 locknut and tighten securely.
- Repeat for opposite side installing gauge wheel in same adjustment hole.

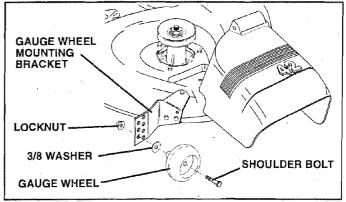


FIG. 4

# **ASSEMBLY**

# INSTALL MULCHER PLATE (See Figs. 5 and 6)

 Install two latch hooks to mulcher plate using screw, washer, lock washer, and weld nut as shown.

**NOTE:** Pre-assemble weld nut to latch hook by inserting weld nut from the top with hook pointing down.

- · Tighten hardware securely.
- Raise and hold deflector shield in upright position.
- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.



CAUTION: Do not remove discharge guard from mower. Raise and hold guard when attaching mulcher plate and allow it to rest on plate while in operation.

# TO CONVERT TO BAGGING OR DISCHARGING

Simply remove mulcher plate and store in a safe place. Your mower is now ready for discharging or installation of optional grass catcher accessory.

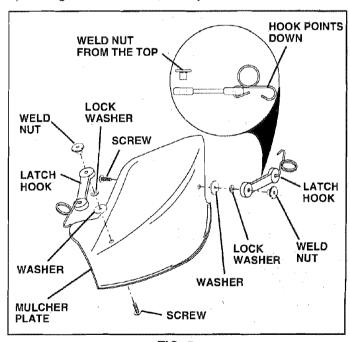


FIG. 5

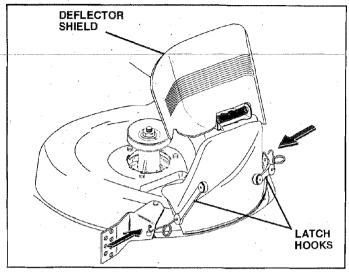


FIG. 6

### ✓ 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.

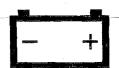
PLEASE REVIEW THE FOLLOWING CHECKLIST:

- ✓ 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 overinflated 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.

These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their meaning.



**BATTERY** 



CAUTION OR WARNING



REVERSE



**FORWARD** 



FAST



SLOW



**ENGINE ON** 



**ENGINE OFF** 



OIL PRESSURE



CLUTCH



LIGHTS ON



LIGHTS OFF



**FUEL** 



CHOKE



MOWER HEIGHT



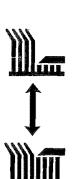
DIFFERENTIAL LOCK



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT



REVERSE



**NEUTRAL** 



HIGH



LOW



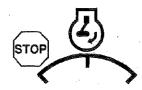
PARKING BRAKE



ATTACHMENT CLUTCH ENGAGED



ATTACHMENT CLUTCH DISENGAGED



**IGNITION** 



DANGER, KEEP HANDS AND FEET AWAY



HYDROSTATIC FREE WHEEL (Hydro Models only)

### 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.

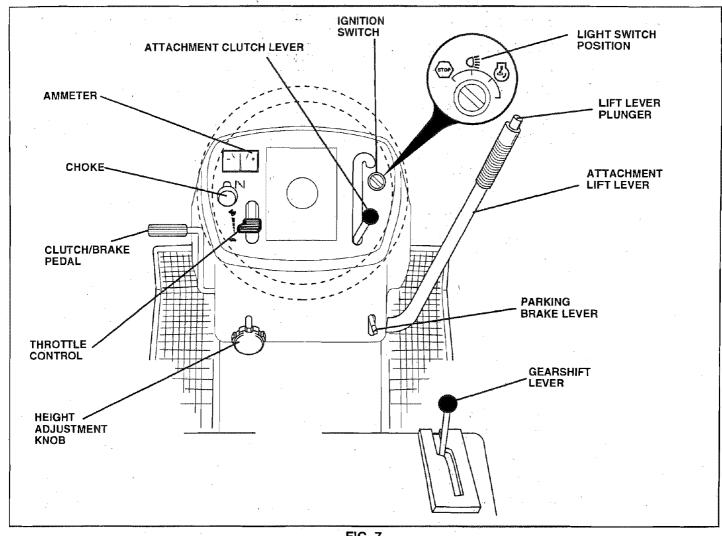


FIG. 7

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

THROTTLE CONTROL: Used for starting and controlling engine speed.

CHOKE CONTROL: Used for starting a cold engine.

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

**HEIGHT ADJUSTMENT KNOB:** Used to adjust the mower cutting height.

IGNITION SWITCH: Used for starting and stopping the

LIGHT SWITCH: Turns the headlights on and off.

AMMETER: Indicates charging (+) or discharging (-) of battery.

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

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

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

PARKING BRAKE LEVER: Locks Clutch/Brake Pedal into the brake position.

GEARSHIFT LEVER: Selects the speed and direction of tractor.



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 a wide vision safety mask over the spectacles or standard safety glasses.

### HOW TO USE YOUR TRACTOR

# TO SET PARKING BRAKE (See Fig. 8)

Your tractor 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 tractor secure.

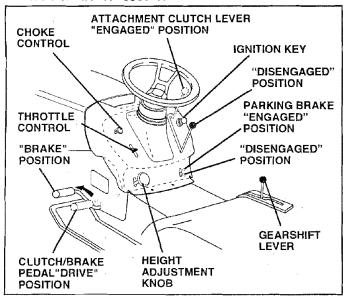


FIG. 8

# STOPPING (See Fig. 8)

MOWER BLADES -

Move attachment clutch lever to "DISENGAGED" position.

#### **GROUND DRIVE -**

- Depress clutch/brake pedal into full "BRAKE" position.
- Move gearshift lever to neutral (N) position.

#### **ENGINE** -

Move throttle control to slow (-) position.

position and allowing engine to idle before stopping may cause engine to "backfire".

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

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



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

### TO USE THROTTLE CONTROL (See Fig. 8)

Always operate engine at full throttle.

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

### TO USE CHOKE CONTROL (See Fig. 8)

Use choke control whenever you are starting a cold engine. Do not use to start a warm engine.

To engage choke control, pull knob out. Slowly push knob in to disengage.

### TO MOVE FORWARD AND BACKWARD (See Fig. 8)

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

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- Move gearshift lever to desired position.
- Slowly release clutch/brake pedal to start movement. **IMPORTANT: BRING TRACTOR TO A COMPLETE STOP** BEFORE SHIFTING OR CHANGING GEARS. FAILURE TO DO SO WILL SHORTEN THE USEFUL LIFE OF YOUR TRANSAXLE.

### TO ADJUST MOWER CUTTING HEIGHT (See Fig. 8)

The cutting height is controlled by turning the height adjustment knob in desired direction.

- Turn knob clockwise ( ) to raise cutting height.
- Turn knob counterclockwise (>>>) to lower cutting height.

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

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

### TO OPERATE MOWER (See Fig. 9)

Your tractor 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.
- Lower mower with attachment lift control.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES disengage attachment clutch control.



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

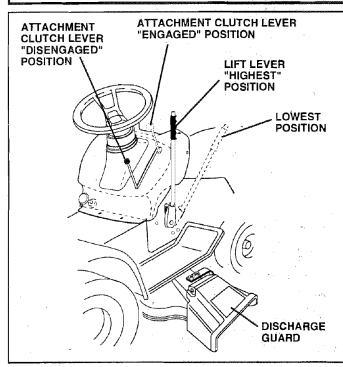


FIG. 9

#### 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. 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 to highest position with attachment lift control.
- When pushing or towing your tractor, be sure gearshift lever is in neutral (N) position.
- Do not push or tow tractor at more than five (5) MPH.

**NOTE**: To protect hood from damage when transporting your tractor on a truck or a trailer, be sure hood is closed and secured to tractor. Use an appropriate means of tying hood to tractor (rope, cord, etc.).

### BEFORE STARTING THE ENGINE

### CHECK ENGINE OIL LEVEL (See Fig. 15)

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

### ADD GASOLINE

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.

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

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



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

### TO START ENGINE (See Fig. 8)

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

- Depress clutch/brake pedal and set parking brake.
- Place gear shift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to fast (\*) position
- Pull choke control out for a cold engine start attempt.
   For a warm engine start attempt the choke control may not be needed.

**Note:** Before starting, read the warm and cold starting procedures below.

Insert key into ignition and turn 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 the engine does not start after several attempts, push choke control in, wait a few minutes and try again. If engine still does not start, pull the choke control out and retry.

#### WARM WEATHER STARTING (50° F and above)

- When engine starts, slowly push choke control in until the engine begins to run smoothly. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

### COLD WEATHER STARTING (50° F and below)

- When engine starts, slowly push choke control in until the engine begins to run smoothly. Continue to push the choke control in small steps allowing the engine to accept small changes in speed and load, until the choke control is fully in. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature.
- The attachments can be used during the engine warmup period and may require the choke control be pulled out slightly.

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

### **MOWING TIPS**

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- 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. 10).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

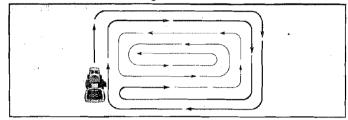


FIG. 10

### **MULCHING MOWING TIPS**

IMPORTANT: FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. CLEAN AFTER EACH USE.

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action.
   The best time to mow your lawn is the early afternoon.
   At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 11). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

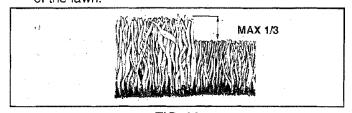


FIG. 11

FIL AS	AINTENANCE SCHEDULE L IN DATES YOU COMPLETE GULAR SERVICE		EFORE	EACH!	SE AS HOURS	HOURS WERT ?	S HOUR S HOUR VERY S	NERY S	S HOUS OD HOUS OU FRY E	EASON EASON	SEF	GE VICI	E DA	ΓES
Contractor, t	Check Brake Operation	V		V				1						
	Check Tire Pressure	V		V									·	
IT	Check for Loose Fasteners	V		-			<b>V</b> 7							
Ŗ	Sharpen/Replace Mower Blades				4	ž								
A	Lubrication Chart			_	V		,		1					
ľ	Check Battery Level/Recharge	. 1			<b>1</b> 6									
0	Clean Battery and Terminals				1				V					
R	Check Transaxle Cooling			1	1									
	Adjust Blade Belt(s) Tension						5	~		ŀ				
	Adjust Motion Drive Belt(s) Tension				9.4	,	<b>V</b> 5					-		
	Check Engine Oil Level	1		~							-	*********		
į	Change Engine Oil		1		1,2,3				1					
E	Clean Air Filter				<b>1</b> /2									
N	Clean Air Screen				<b>√</b> 2									
G	Inspect Muffler/Spark Arrester					1								
	Replace Oil Filter (If equipped)						1,2							
N E	Clean Engine Cooling Fins						1/2							
	Replace Spark Plug						<b>V</b>	Server .						
	Replace Air Filter Paper Cartridge				,		<b>1</b> /2							
	Replace Fuel Filter							V						

- $\ensuremath{\text{1}}$  Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions.
- 3 If equipped with oil filter, change oil every 50 hours.
- 4 Replace blades more often when moving in sandy soil.

- 5 If equipped with adjustable system.
- 6 Not required if equipped with maintenance-free battery.
- 7 Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten.

# **GENERAL RECOMMENDATIONS**

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

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

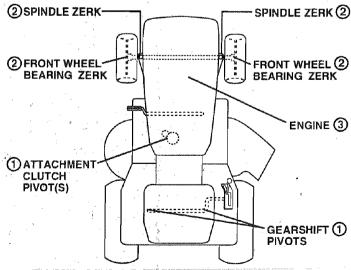
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

### **BEFORE EACH USE**

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

#### **LUBRICATION CHART**



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

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

### **TRACTOR**

Always observe safety rules when performing any maintenance.

#### **BRAKE OPERATION**

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

### **TIRES**

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

#### **BLADE CARE**

For best results mower blades must be kept sharp. Replace bent or damaged blades.

### **BLADE REMOVAL (See Fig. 12)**

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

**IMPORTANT:** BLADE BOLT IS GRADE 8 HEATTREATED. **NOTE:** We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

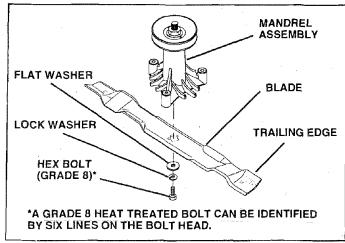


FIG. 12

# TO SHARPEN BLADE (See Fig. 13)

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

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

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

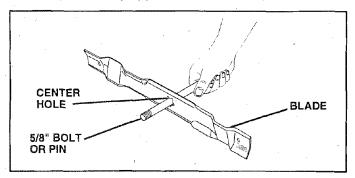


FIG. 13

### **BATTERY**

Your tractor 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.

- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep small vent holes open.
- Recharge at 6-10 amperes for 1 hour.

#### TO CLEAN BATTERY AND TERMINALS

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

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- 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 "CONNECT BATTERY" in the Assembly section of this manual).

#### V-BELTS

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

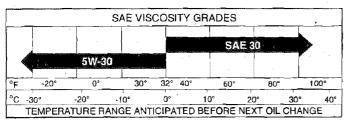
#### TRANSAXLE COOLING

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

### **ENGINE**

### LUBRICATION

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



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

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

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

#### TO CHANGE ENGINE OIL (See Fig.15)

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

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

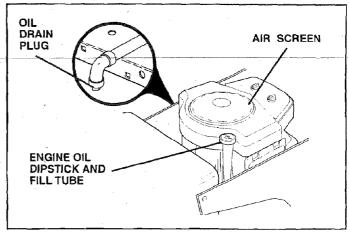


FIG. 14

### CLEAN AIR SCREEN (See Fig. 14)

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

### AIR FILTER (See Fig. 15)

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner element after every 25 hours of operation or every season. Service paper cartridge every 100 hours or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.

Remove knob(s) and cover.

#### TO SERVICE PRE-CLEANER

- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace pre-cleaner.
- Reinstall pre-cleaner over cartridge.
- Reinstall cover and secure with knob(s).

#### TO SERVICE CARTRIDGE

- Remove wing nuts and cartridge plate.
- Carefully remove cartridge to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge plate, wing nuts, precleaner, cover and secure with knob(s).

IMPORTANT: PETROLEUM SOLVENTS, SUCH AS KEROSENE, ARE NOT TO BE USED TO CLEAN THE CARTRIDGE. THEY MAY CAUSE DETERIORATION OF THE CARTRIDGE. DO NOT OIL CARTRIDGE. DO NOT USE PRESSURIZED AIR TO CLEAN OR DRY CARTRIDGE.

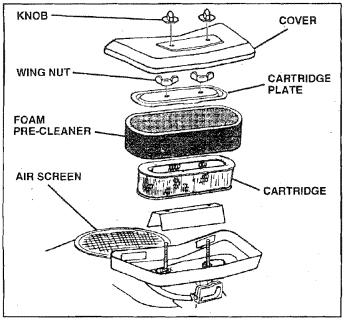


FIG. 15

# **ENGINE COOLING FINS (See Fig. 16)**

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating. Air guide covers must be removed. Remove side panels and hood (See "TO REMOVE HOOD AND GRILL ASSEMBLY" in the Service and Adjustments section of this manual).

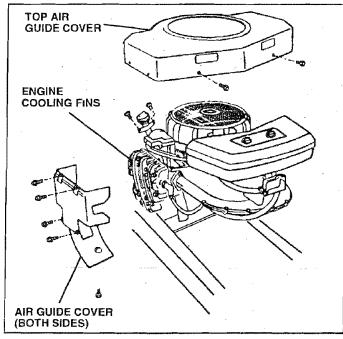


FIG. 16

#### 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. 17)

The 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 with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

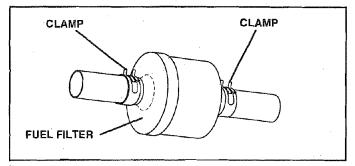


FIG. 17

### **CLEANING**

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

We do not recommend using a garden hose to clean your tractor 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 (N) position.
- Place attachment clutch in "DISENGAGED" position.
- · Turn ignition key "OFF" and remove key.
- . Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

### **TRACTOR**

### TO REMOVE MOWER (See Fig. 18)

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

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

IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER IS TO BE MOUNTED TO THE TRACTOR, REMOVE THE FRONT LINKS.

### TO INSTALL MOWER (See Fig. 18)

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

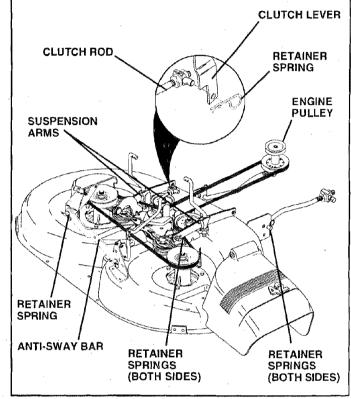


FIG. 18

### 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 of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 19 and 20)

- · Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

**NOTE**: Each full turn of adjustment nut will change mower height about 1/8".

Recheck measurements after adjusting.

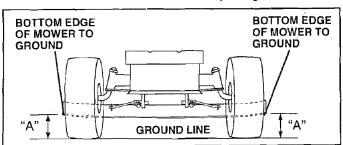


FIG. 19

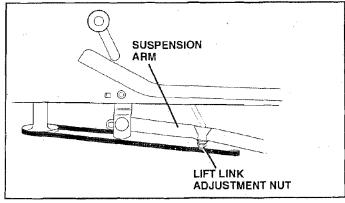


FIG. 20

FRONT-TO-BACK ADJUSTMENT (See Figs. 21 and 22)

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

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

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

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

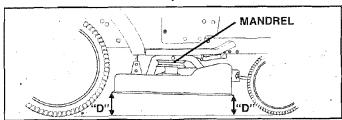
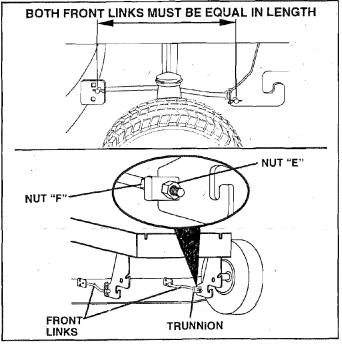


FIG. 21



# TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 23)

The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake:

#### **BELT REMOVAL -**

- Remove mower from tractor (See "TO REMOVE MOWER" in this section of this manual).
- Work belt off both mandrel pulleys and idler pulleys.
- · Pull belt away from mower.

#### **BELT INSTALLATION -**

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

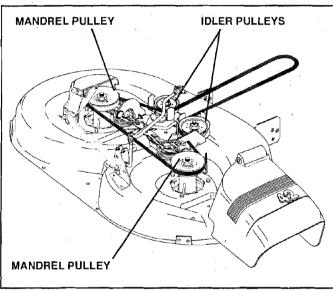


FIG. 23

# TO ADJUST BRAKE (See Fig. 24)

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

If tractor 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", loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.

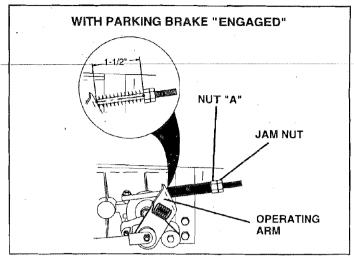


FIG. 24

# 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 upper belt keeper.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull belt toward front of tractor and remove downwards from around engine pulley.
- Install new belt by reversing above procedure.

IMPORTANT: MAKE SURE UPPER BELT KEEPER IS POSITIONED PROPERLY BETWEEN LOCATOR TABS.

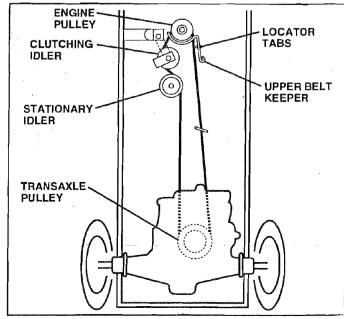


FIG. 25

### TO ADJUST STEERING WHEEL ALIGNMENT

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

### FRONT WHEEL TOE-IN/CAMBER

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

# TO REMOVE WHEEL FOR REPAIRS (See Fig. 26)

- Block up axle securely.
- Remove axle cover, 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 axie cover.

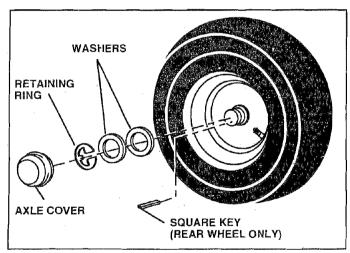


FIG. 26

# TO START ENGINE WITH A WEAK BATTERY (See Fig. 27)



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

#### TO ATTACH JUMPER CABLES -

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

### TO REMOVE CABLES, REVERSE ORDER -

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

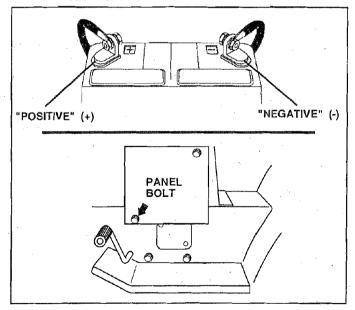


FIG. 27

#### TO REPLACE HEADLIGHT BULB

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

#### INTERLOCKS AND RELAYS

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

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

#### TO REPLACE FUSE

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

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

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

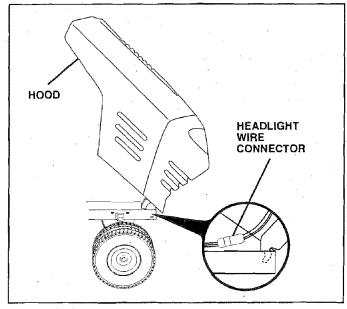


FIG. 28

# **ENGINE**

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

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

- With engine not running, move throttle control lever to fast (\*) position.
- Check that swivel is against side of quarter circle. If it is not, loosen cable clamp screw and pull cable back until swivel is against quarter circle. Tighten cable clamp screw securely.

### TO ADJUST CHOKE CONTROL (See Fig. 30)

The choke 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 choke control (located on dash panel) to full choke (|\(\chi\)) position.
- Remove air cleaner cover, filter and cartridge plate to expose carburetor choke (see "AIR FILTER" in the Customer Responsibilities section of this manual).
- Choke should be closed. If it is not, loosen casing clamp screw and move choke cable until choke is completely closed. Tighten casing clamp screw securely.
- Reassemble air cleaner.

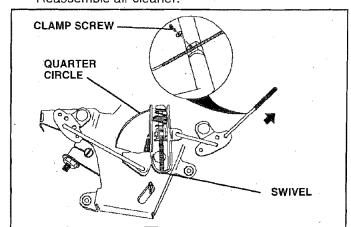


FIG. 29

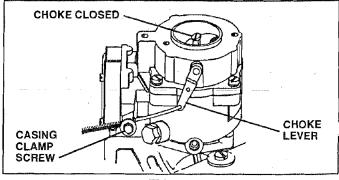


FIG. 30

# TO ADJUST CARBURETOR (See Figs. 31 and 32)

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 screw in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the mixture screw 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 SCREW IS TURNED IN TOO TIGHT.

#### PRELIMINARY SETTING -

- Be sure you have a clean air filter, and the throttle control cable and choke are adjusted properly (see above).
- With engine off turn idle mixture screw in (clockwise) closing it finger tight and then turn out (counterclockwise) 1-1/4 to 1-1/2 turns.

#### FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/ motion control lever in neutral (N) position.
- With throttle control lever in slow (
   ) position, hold
   throttle lever against idle speed screw and adjust idle
   speed screw to obtain 1200 to 1400 RPM.
- While still holding throttle lever against idle speed screw, 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.
- Continue to hold throttle lever against idle speed screw and adjust idle speed screw to obtain 900 to 1200 RPM. Release throttle lever.

#### **ACCELERATION TEST -**

Move throttle control lever from slow (
 position. If engine hesitates or dies, turn idle 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.

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

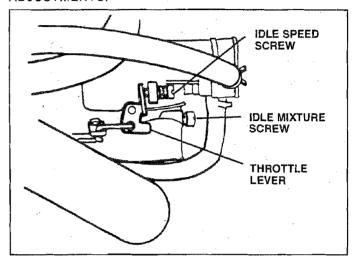


FIG. 31

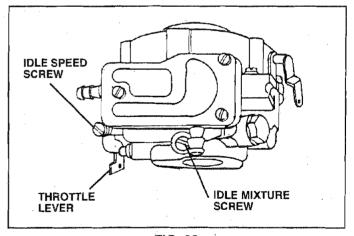


FIG. 32

# **STORAGE**

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



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

### TRACTOR

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

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

#### **BATTERY**

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

### **ENGINE**

#### FUEL SYSTEM

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

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

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

#### **ENGINE OIL**

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

#### **CYLINDERS**

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

### **OTHER**

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust.
   Rust and/or dirt in your gasoline will cause problems.
- If possible, store your tractor indoors and cover it to give protection from dust and dirt.
- Cover your tractor 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 tractor to rust.

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

# TROUBLESHOOTING POINTS

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

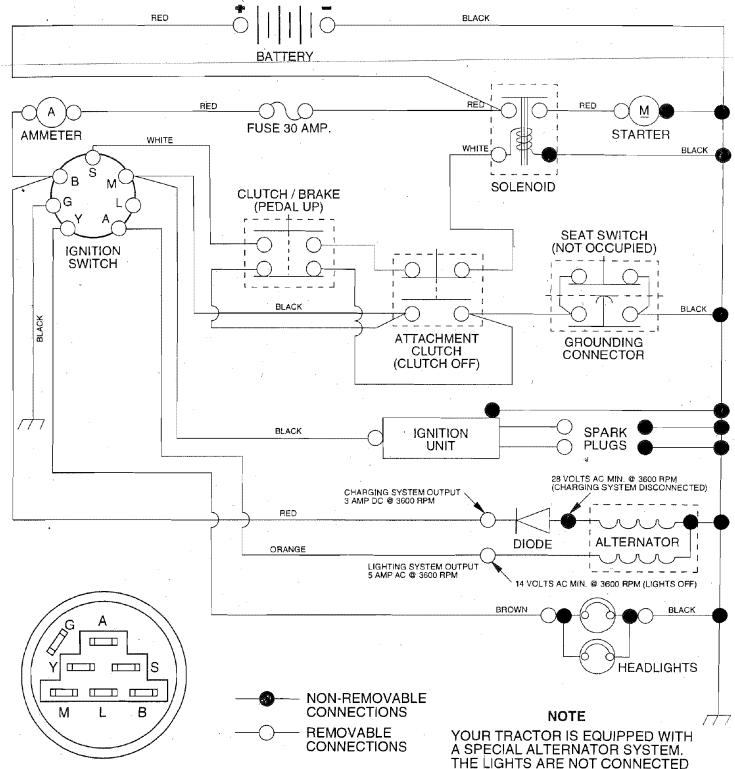
# TROUBLESHOOTING POINTS

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

# SERVICE NOTES

### TRACTOR - - MODEL NUMBER 917.256563

### **SCHEMATIC**



#### **IGNITION SWITCH**

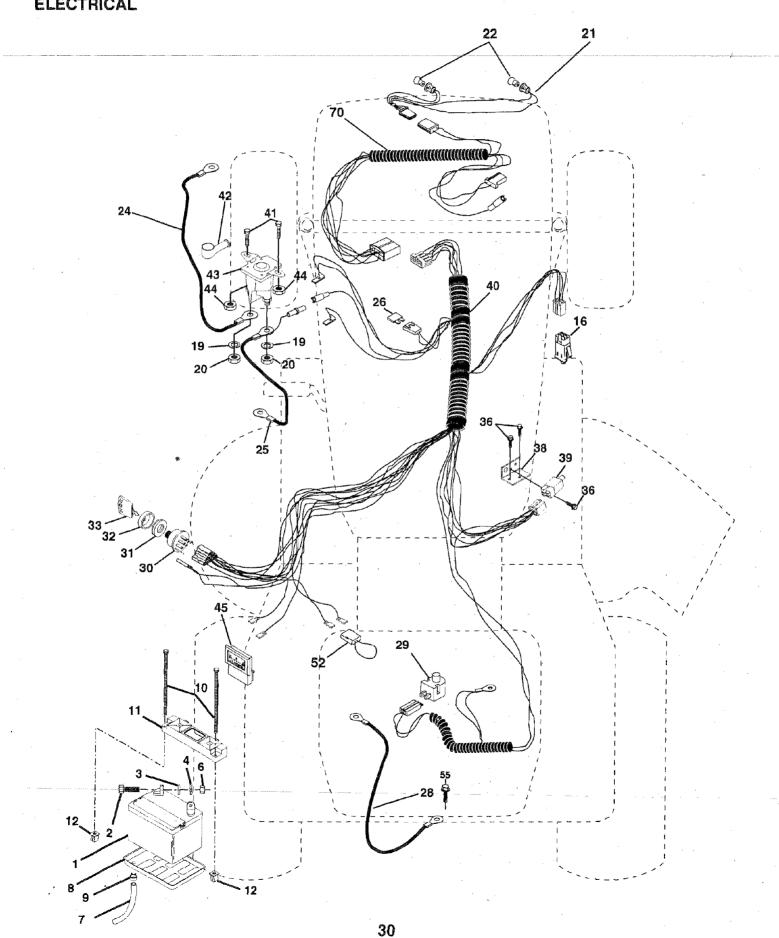
POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B+L	A + Y
RUN	B+L	NONE
START	B+L+S	NONE

#### WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

# TRACTOR - - MODEL NUMBER 917.256563

ELECTRICAL



# **TRACTOR - - MODEL NUMBER 917.256563**

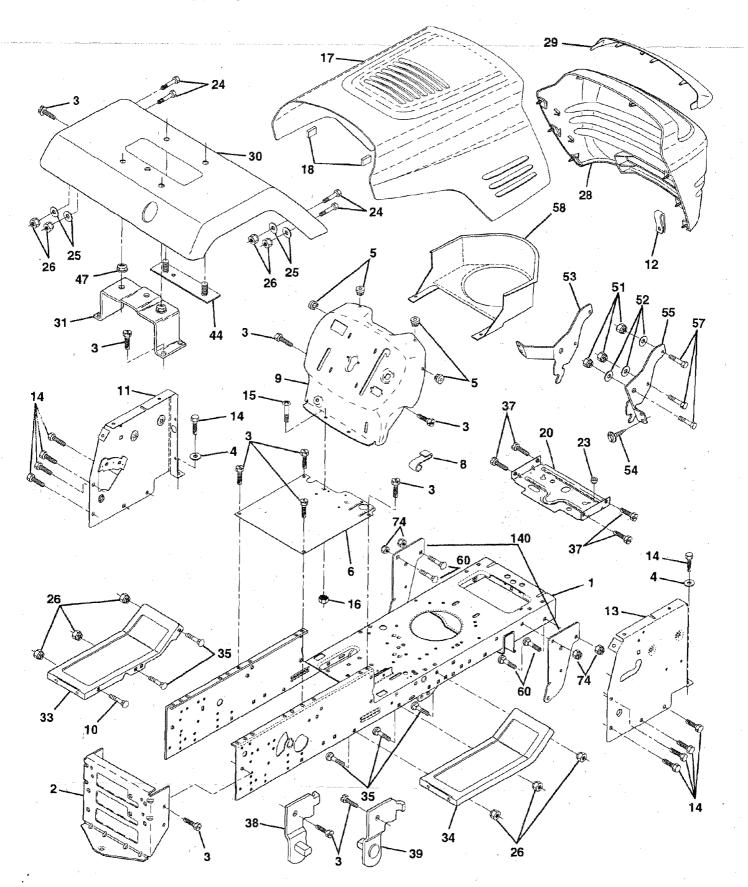
#### ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
NO. 1234678901126901245689012336890412344525	NO.  146140 74760412 19091016 10040400 73220400 7697J 7603J 109596X 145211 145209 145769 153664 10090400 73350400 147430 4152J 4799J 146148 108824X 145491 121305X 140301 124211X 141226 109310X 17021008 140336 109553X 151212 71110408 131563 145673 73640400 121433X 141940 17490508	Battery Bolt, Hex 1/4-20 x 3/4 Washer 9/32 x 5/8 x 16 Gauge Washer, Lock 1/4 Nut, Hex 1/4-20 Tube Tray, Battery Clamp, Hose Bolt, Btr Front 1/4-20 x 7-1/2 Holddown Battery Dash Mount Nut, Push Nylon Battery Front 1/4 Switch Interlock Push-In Washer, Lock 1/4 Nut, Hex, Jam 1/4-20 Harness, Light Socket (w/4152J) Light Bulb Cable, Battery Cable, Battery Cable, Battery Fuse Cable, Ground Switch, Seat Switch, Ignition 4 Position Nut, Ignition Cover, Ignition Switch Key, Molded, Craftsman Screw, Hex, Tapping #10-24 x 1/2 Bracket, Switch Interlock Switch, Interlock, Attachment Clutch Harness, Ignition Bolt Blk Fin Hex 1/4-20 UNC x 1/2 Cover, Terminal Solenoid Nut Keps Blk Hex 1/4-20 UNC Ammeter Rectangular 6 Amp Protection Wire Loop (Hour Meter) Screw Thdrol 5/16-18 x 1/2
70	140712	Harness, Engine Lt Private Label

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

# TRACTOR - - MODEL NUMBER 917.256563

# **CHASSIS AND ENCLOSURES**



# TRACTOR - - MODEL NUMBER 917.256563

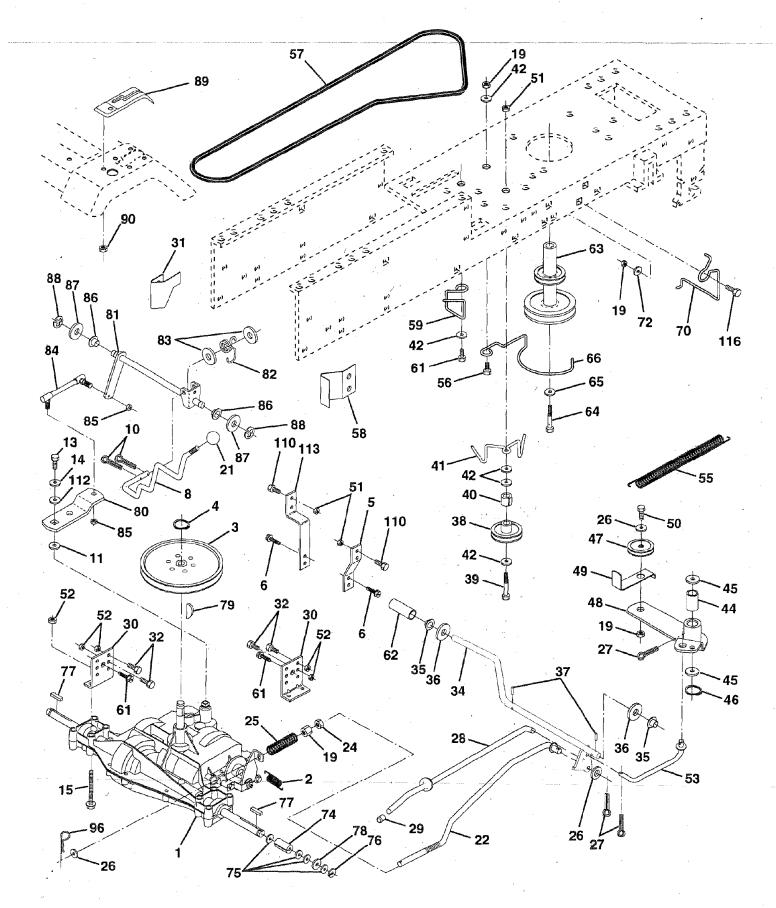
# **CHASSIS AND ENCLOSURES**

KEY NO.	PART NO.	DESCRIPTION
1 234 56 8 9 0 1 1 2 1 3	151169 140356 17490612 STD551025 146077 145206 126471X 147633X010 STD533710 146956 145660 146962	Chassis Drawbar Screw, Thd., Roll. 3/8-16 x 3/4 Type TT Washer 13/32 x 3/4 x 16 Gauge Bumper Snap-In Saddle Clip, Fuel Line Dash, Silkscreened Bolt, Carriage 3/8-16 x 1 Panel, Dash, LH Clip Tinnerman Grille P/L Panel, Dash, RH
14 15	17490608 74180512	Screw, Thd., Roll. 3/8-16 x 1/2 Type TT Screw, Machine, Thd., Roll. 5/16-18 UNC x 3/4
16 17 18 20 23 24	STD541431 144983X574 126938X 145210 124028X STD523710	Nut, Hex, Keps 5/16-18 UNC Hood Assembly Bumper Hood Plate Mtg Battery Fuel Tank 95 Bushing, Snap, Nylon, Fuel Line Bolt, Hex Head, Fin. 3/8-16 UNC x 1 Grade 5
35 37 38 39 447 51 52 54 55	19131312 STD541437 145198X459 145199 140002X574 137113 145244X574 STD533707 17490508 139886 139887 140675 105531X 73800400 19091416 145201 17030814 145202	Washer 13/32 x 13/16 x 12 Gauge Locknut, Hex, with Insert 3/8-16 UNC Grille, W/Clips MS-459 Lens, Grille Fender Bracket, Fender Footrest, LH Footrest, RH Bolf Rdhd Sht Sqnk 3/8-16 x 3/4 Screw, Thdrol. 5/16-18 x 1/2 TYT Pivot Bracket Assembly, LH, Mower, Rear Pivot Bracket Assembly, RH, Mower, Rear Strap Assembly, Fender Nut, Push, Nylon Nut Lock W/Insert 1/4 - 20 UNC Washer 9/32 X 7/8 X 16 Ga. Bracket Grille Pickoff LH Screw, Hex Head, Spiderlock #8 x 7/8 AB Bracket Grille Pickoff RH
57 58 60 74 140	74780412 140547 STD533707 STD541437 150556	Bolt FinHex 1/4 -20 UNC X.75 Air Duct P/L 18HP B&S Opp. Twin Bolt Rdhd Sht Sqnk 3/8-16 x 3/4 Nut, Crownlock 3/8-16 UNC Bracket Chassis Front

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

# **TRACTOR - - MODEL NUMBER 917.256563**

DRIVE



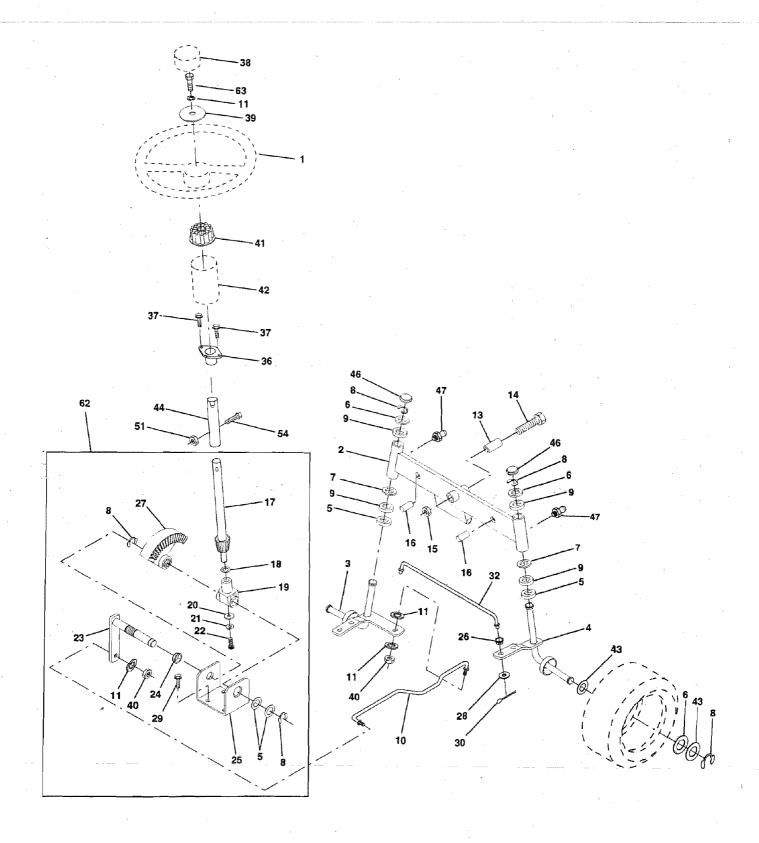
# TRACTOR - - MODEL NUMBER 917.256563

# DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.		DESCRIPTION
1	145602	Transaxie, Peerless, 6 Speed, Model Number 930-057	51 52	STD541437 STD541431	Nut Crown Lock 3/8-16 UNC Nut Crown Lock 5/16-18 UNC
2	146682	Spring, Return, Brake	53	105710X	Link, Clutch
3	123666X	Pulley, Transaxle		105709X	Spring, Clutch Return
4	12000028	Ring, Retainer	56	STD523712 130801	Bolt Fin Hex 3/8-16 x 1-1/4 V-Belt, Ground Drive
5 6	121520X 17490512	Strap, Torque Screw, Thd., Roll. 5/16-18 x 3/4		127274X	Keeper, Belt, R.H.
8	141002	Rod, Shift	59	140312	Keeper, Belt, Center Span
10	76020416	Pin, Cotter		17490612	Screw, Thd., Roll. 3/8-16 x 3/4
11	105701X	Washer, Shift Plate	62	8883R	Cover, Pedal
13	74550412	Bolt 1/4-28 UNF W/Patch Grade 8	63	140186	Pulley, Engine
14	STD551125	Washer	64	71170764	Bolt, Hex
15	74490544	Bolt Hex Fighd 5/16-18 Gr. 5	65	STD551143	Washer
19	STD541437	Nut Knob	66 70	129921 134683	Keeper, Belt, Engine, L.H. Guide, Mower Drive Belt, R.H.
21 22	106933X 130804	Rod, Brake		19132012	Washer 13/32 x 1-1/4 x 12 Gauge
24	STD541237	Mut	74	137057	Spacer, Axle
25	106888X	Spring, Brake Rod Washer	75	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
26	STD551037	Washer	76	STD581075	E-Ring
27	STD561210	, III	11	123583X	Key, Šquare 2.0 x .1845/.1865
28	145204	Rod, Parking Brake		121748X	Washer 25/32 x 1-5/8 x 16 Gauge
29	124236X	Cap, Parking Brake, Red		2228M	Key Woodruff #9 3/16 x 3/4
30	130807	Bracket, Transaxle	80 81	145090 145092	Arm, Shift
31 32	127275X STD523107	Keeper, Belt, L.H. Bolt		123782X	Shaft Assembly Spring, Torsion
34	151128	Shaft Assembly, Foot Pedal	83	19171216	Washer 17/32 x 3/4 x 16 Gauge
35	120183X	Bearing, Nylon		145643	Tie Rod
36	STD551062	Washer	85	150360	Nut, Lock Center 1/4-28 FNTHD
37	STD571810	Roll Pin	86	71208	Bushing, Pivot
38	123674X		. 87		Washer
39	STD523727			12000008	E-Ring
40 41	4470J 153399	Spacer, Split .395 x .59 Keeper, Belt, Idler		139991 124346X	Console, Shift, 6 Speed, N/Ignition Nut, Self-Threading, Washer Hd 1/4
41 42	19131312	Washer 13/32 x 13/16 x 12 Gauge		4497H	Retainer Spring 1" Zinc Cad
44	105706X	Bearing, Nylon	110	74760612	Bolt, Fin Hex 3/8-16 UNC x 3/4
45	110812X	Bearing, Nylon Washer, Hardened Ring, Klip	112	19091210	Washer 9/32 x 3/4 x 10 Gauge
46	12000039	Ring, Klip	113	127285X	Strap Torque LT
47 48	127783 123789X	Pulley, Idler, V-Groove, Plastic Belicrank Assembly	116	72110610	Bolt Rdhd Sq. Neck 3/8-16 x 1.25
49	123205X	Retainer, Belt	NOT	E: All compor	nent dimensions given in U.S. inches.
50	STD523715	Bolt		1 inch = 25	

# **TRACTOR - - MODEL NUMBER 917.256563**

# STEERING ASSEMBLY



## TRACTOR - - MODEL NUMBER 917.256563

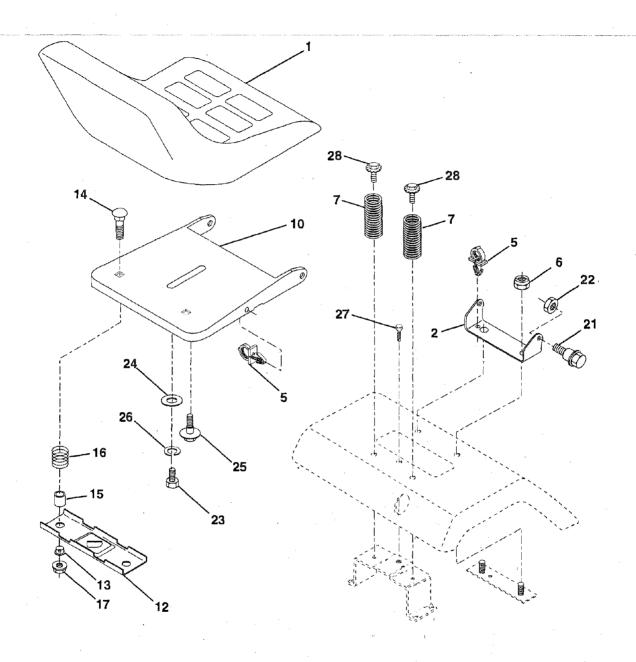
#### STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1234567890113156789012322222222333333344444555663	139768 142033 135227 135228 6266H 121748X 19272016 12000029 3366R 130468 STD551137 110438X 74011056 73901000 132624 140176 57079 124035X 126684X STD551125 71100410 127501 109816X 124036X 124036X 126847X 136874 19131416 17490612 STD561210 130465 132196 152927 139769 19133808 7810H 100711L 145054 121749X 153720 121232X 6855M 73800500 74780520 149686 74780616	Wheel Steering Std Black Axle Asm Front Spindle Asm Lh Spindle Asm Rh Bearing Race Thrust Harden Washer 25/32 X 1 5/8 X 16ga Washer 27/32 X 1 1/4 X 16 Ga Ring Klip #t5304-75 Bearing Col Strg Blk Link Drag Sol Ball Jt 20 064 Washer Lock Hvy Hlcl Spr 3/8 Spacer Bearing Axle Front Bolt Hex 5/8-11 Unc X 3-1/2 Locknut Flange 5/8-11 Unc Pin Axle 5/8 X 1 55/1 54 Lg Shaft Asm Strg Private Label Washer Thrust 515x 750x 033 Support Shaft Washer Shim 1/4 X 5/8 X 062 Washer Lock Hvy Helical 1/4 Screw Cap Sckt Hd Phos & Oil Shaft Asm Pittman Nyliner Snap In Bracket Steering Bushing Rod Tie Blk Lt Gear Sector Washer 13/32 X 7/8 X 16ga Screw Thdrol 3/8-16x3/4 Ty-tt Pin Cotter 1/8 X 3/4 Cad Rod Tie Wire Form 19 75 Mech Bushing Strg 5/8 Id Dash Screw Insert Cap Strg Wheel Std Blk Washer 13/32 X 2-3/8 X 8 Ga Nut Lock Center 3/8-24 UNF Adaptor Wheel Strg 640/ 635id Boot Shaft Steering Washer 25/32 X 1 1/4 X 16 Ga Extension Shaft Steering LR/LT Cap Spindle Fr Top Blk Fitting Grease Nut Lock Hex W/Ins 5/16 -18 UNC Bolt Fin Hex 5/16 - 18 UNC X 1 -1/4 Kit, Sterring Assembly Bolt, Fin Hex 3/8-16 UNC x 1 Gr.5

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

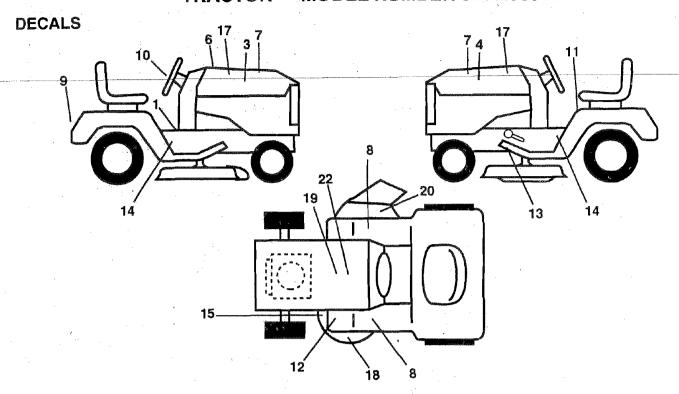
#### **TRACTOR - - MODEL NUMBER 917.256563**

#### **SEAT ASSEMBLY**



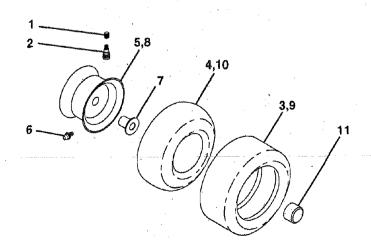
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 5	140123 140551 145006 STD541437 124181X 140552 121246X 121248X 72050411 134300 121250X	Seat Bracket Pnt Pivot Seat (blk) Clip Push-In Nut Lock Hex W/Ins 3/8 -16 UNC Spring Seat Cprsn 2 250 Blk Zi Pan Pnt Seat (blk) Bracket Pnt Mounting Switch Bushing Snap Blk Nyl 50 Id Bolt Rdhd Sht Nk 1/4-20x1-3/8 Spacer Split 28 X 96 Zinc Spring Cprsn 1 27 Blk Pnt	17 21 22 23 24 25 26 27 28 NOT	123976X 153236 STD541431 74780814 19171912 127018X STD551150 17490608 150176 E: All compon	Nut Lock 1/4 Lge Flg Gr 5 Zinc Bolt Shoulder 5/16-18 Unc Blkz Nut Lock Hex W/Ins 5/16-18 Bolt Fin Hex 1/2-13 X 7/8 Gr 5 Washer 17/32 X 1-3/16 X 12 Ga Bolt Shoulder 5/16-18 X 62 Washer Lock Hvy Hlcl Spr 1/2 Screw Thdrol. 3/8-16 x 1/2 Bolt 5/16 -18 UNC X 3/4 W/Sems tent dimensions given in U.S. inches.

#### TRACTOR - - MODEL NUMBER 917.256563



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 3 4 6 7 8 9 10 11 12 13	140819 150683 150684 133644 150927 145245 128314 150333 137537 4900J 146046 150678	Decal Dash Instruction Operat Eng Decal Hood Rh Craftsman Decal Hood Lh Craftsman Decal Maint Customer Sears Dom Decal Panel Side B&S5 Pad, Footrest Decal Fender Craftsman White Decal, Cap CNSMR Help Line SRS Decal Caution English/Spanish Decal Clutch/brake English Decal V-belt Dr Sch Tractor E Decal Chassis 6 Sp 42"	15 17 18 19 20 22	136832 151303 133179 138047 150955 149516 138311 145247 155159 155160	Decal Mower Drive Schematic Decal, Insert, Hood Decal Mower Qc System Decal, Battery Diehard Sears Decal Deck Mower EZ3 Decal Battery Decal Lift Handle Fastener Pop-In Footrest Manual, Owner's (English) Manual, Owner's (Spanish)

#### WHEELS & TIRES

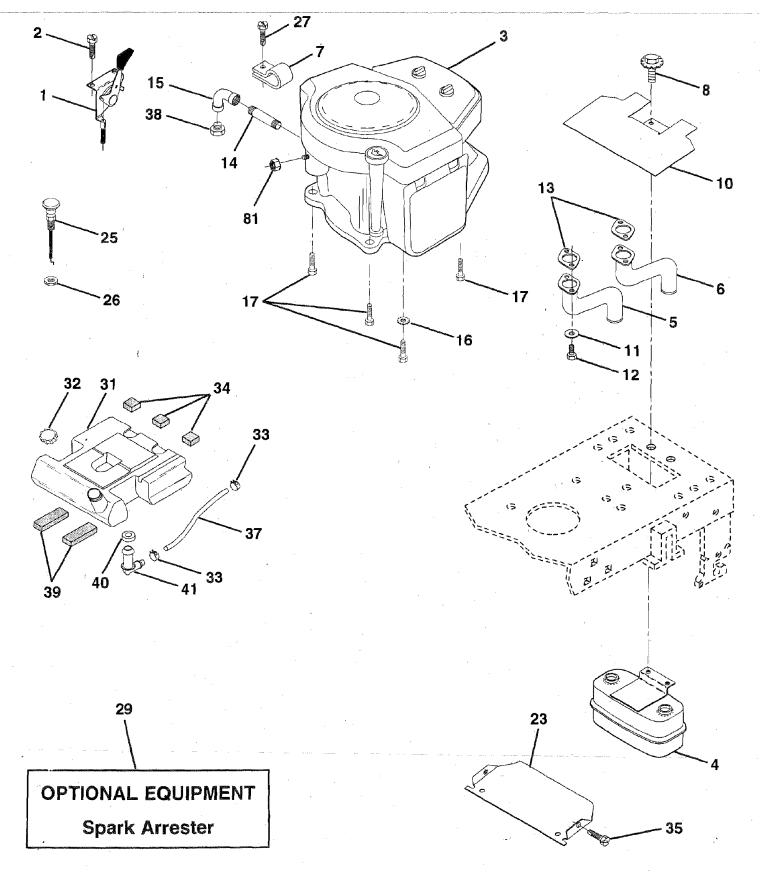


KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11	59192 65139 106222X 59904 106732X427 278H 9040H 106108X427 122082X 7152J 104757X 144334	Cap Value Tire Stem Value Tire F Ts 15 X 6 0 - 6 Service Tube Inner Front #35060 Rim Asm 6"front White Service Fitting Grease Bearing Flange Rim Asm 8"rear White Service Tire R Ts 20 x 10-8 Service Tube Rear 9 5 X 8 Service Cap Axle Blk 1 50 X 1 00 Sealant, Tire (10 oz. Tube)

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

#### TRACTOR - - MODEL NUMBER 917.256563

#### ENGINE



#### TRACTOR -- MODEL NUMBER 917.256563

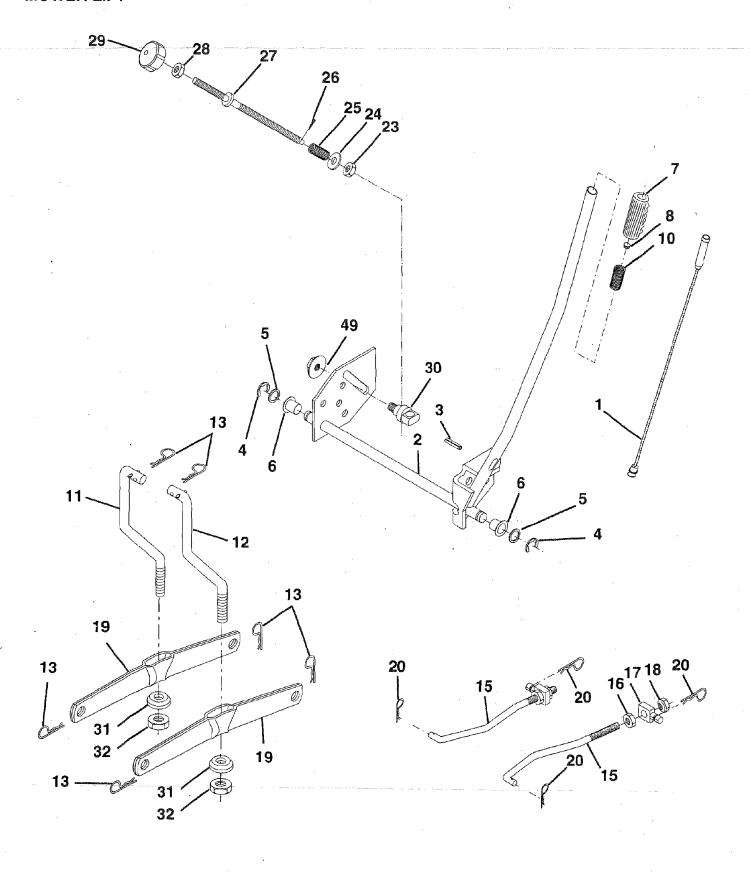
#### ENGINE

KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 10 1 12 13 14 15 16 17 22 5	151273 17720410 150465 149723 144069 144068 138129 150176 145552 STD551125 STD522507 272250 13280336 13200300 STD551237 17490624 150554 145996 73920600 152927	Control Throt Paddle 32 22 Screw Hex Thd Cut 1/4-20x5/8 T Engine B&s 19hp, Model No. 42A707, Type No. 1624 -01 Muffler Exhaust Exhaust Asm. Left Exhaust Asm. Left Exhaust Asm. Right Clamp Tube Double Engine Bolt 5/16 - 18 UNC X 3/4 W/Sems Heat Shield Lt Washer Lock Hvy. Helical 1/4 Bolt Fin Hex 1/4-20 x 3/4 Gasket Muffler Nipple Pipe 4-1/2" Elbow Std 90 Degree 3/8-18 Npt Washer Lock Ext Tooth 3/8 Screw Thdrol 3/8-16x1-1/2 Tytt Shield Browning Control Choke Nut Hex 3/8-24 Unf Screw Arrestor Spark Tank Fuel 3 50 Rear Cap Asm Fuel W/Guage Clamp Hose Blk Spacer Pad Screw Thdrol 5/16-18 x 3/4 Line Fuel Plug Oil Drain (Order From Engine Manufacturer) Pad Idler 1.75 x .75 x .06 Bushing Stem Tank Fuel
81	128861	Nut, Flange 1/4-20 Starter Nut

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

## **TRACTOR - - MODEL NUMBER 917.256563**

#### **MOWER LIFT**



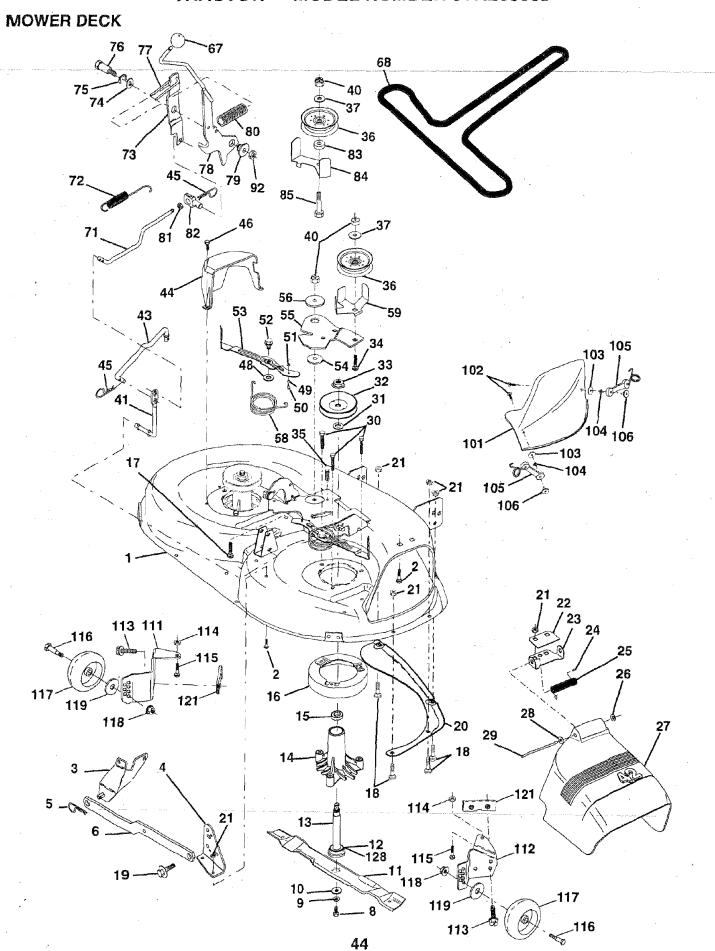
#### **TRACTOR - - MODEL NUMBER 917.256563**

#### MOWER LIFT

KEY NO.	PART NO.	DESCRIPTION
13 15 16 17 18 19 20 23 24 25 26 27 28 29 30 31	139865 139866 4939M 127218 73350800 130171 73800800 139868 3146R 110807X 19131016 2876H 76020308 126971X 73350600 138057 150233	Wire Assy., Inner, with Plunger Shaft Asm. Lift Pin Groove E Ring #5133-62 Washer 21/32 x 1 x 21 Ga. Bearing Nylon Grip Handle Fluted Button Plunger Read Spring Cprsn Link Lift Lh Fixed Length Link Lift Rh Fixed Length Retainer Spring Link Front Nut Jam Hex 1/2-13 Unc Trunnion Blk Zinc Nut Lock W/Wsh 1/2-13 Unc Arm Suspension Rear Retainer Spring Nut Spring Washer 13/32 x 5/8 x 16 Ga. Spring 2-1/8" Pin cotter 3/32 x 1/2 Rod Adj. Lift Nut Hex Jam 3/8-16 Knob Inf. 3/8-16 Trunnion Inf. Hgt. Bearing, Pivot, Lift, Special Nut, Crownlock 3/8-24 Nut, Flange Lock

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

#### TRACTOR - - MODEL NUMBER 917.256563



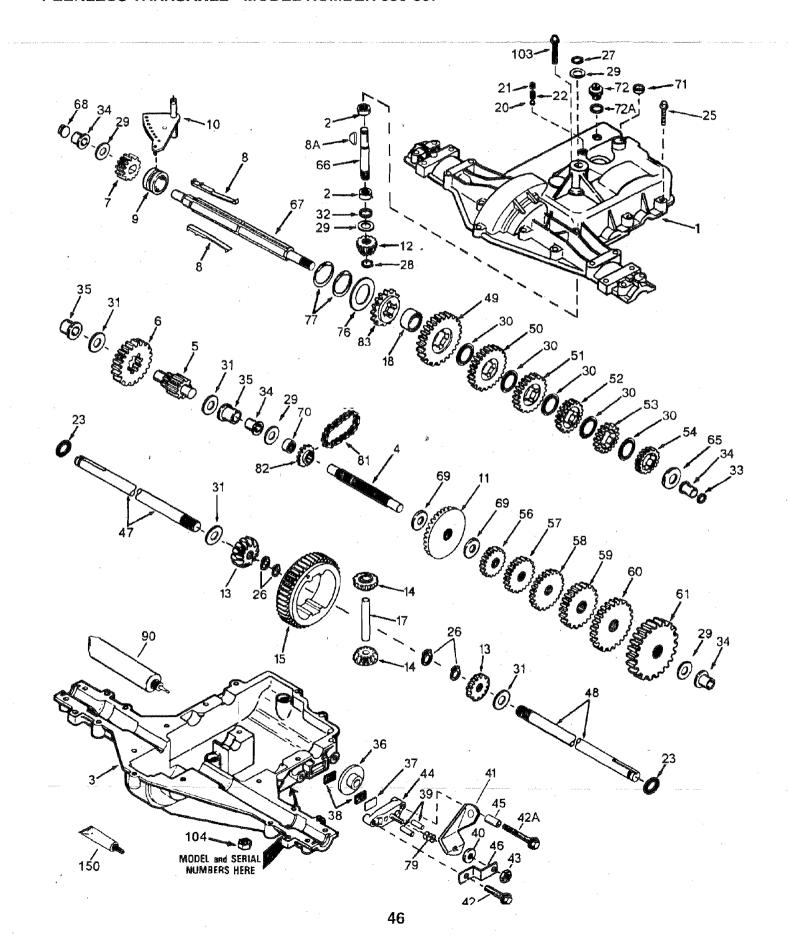
#### TRACTOR - - MODEL NUMBER 917.256563

#### **MOWER DECK**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
NO.  1 2 3 4 5 6 8 9 10 11 12 13 14 15 16	NO. 144393 STD533107 138017 138440 STD624008 130832 850857 STD551137 140296 134149 129895 137645  128774 110485X 140329	Mower Deck Assembly, 42" Bolt Bracket Asm Fr. Sway Bar Bracket Asm Deck 42" Sway Bar Retainer Spring Arm, Suspension, Rear Bolt 3/8-24 x 1.25 Grade 8 Washer, Lock Washer, Hardened Blade, Mulching, 42" Mower Deck Bearing, Ball Shaft Assembly, Mandrel, Vented (Includes Key Number 12) Housing, Mandrel, Vented	NO. 54 55 56 58 59 67 68 71 72 73 74 75 67 77	NO.  133943 140084 122052X 140086 141043 149846 144200 142427 131870 127847 121748X 12000029 128903 127845 145132 127498	Washer, Hardened Arm, Idler Spacer, Retainer Spring, Torsion, Brake Guard, Idler Knob Custom Dual V-Belt, 42" Mower Rod, Clutch, Primary Spring, Extension, Return Arm, Clutch, Secondary Washer 25/32 x 1-5/8 x 16 Gauge Ring, Klip Bolt, Shoulder 3/8-16 UNC x 1.44 Keeper, Spring Arm, Clutch, Primary Bushing, Large, Brass
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	72110610 72140505 132827 136888 73680500 134753 131267 105304X 123713X 110452X 130968 19111016 131491 138776 129963 153535 137266 STD533717 133835	Stripper, Vented Mower Deck Bolt, Carriage 3/8-16 x 2-1/4 Bolt, Carriage 5/16-18 x 5/8 Bolt, Shoulder Baffle, Vortex Nut Crownlock 5/16-18 Stiffener Bracket Bracket, Deflector Cap, Sleeve Spring, Torsion, Deflector Nut, Push Shield, Deflector Washer 11/32 x 5/8 x 16 Gauge Rod, Hinge Bolt 5/16-18 x 1.25 Washer, Spacer Pulley, Mandrel Nut, Flanged, Toplock 9/16 Bolt Fastner, Christmas Tree	92 101 102 103 104 105 106 111 112 113 114	153701 73350600 142028 120958X 144394 72140618 73800600 136420 71161010 19061216 STD551110 130758 2029J 140353 132262 17490512 73510500 72110504	Spring, Mower Clutch Nut, Hex, Jam 3/8-16 Trunnion Washer Sintered Keeper, Belt Idler Fixed Bolt, RdHd Sqnk 3/8-16 x 2-1/4 Gr. 5 Locknut, Hex W/Wash Insert Mulcher cover Screw Washer #10 Washer, Lock Latch Assembly, Bagger Nut, Weld Bracket, Gauge, Wheel L.H. Bracket, Gauge, Wheel R.H. Screw, Thdrol 5/16-18 x 3/4 Nut, Hex Keps 5/16-18 UNC Bolt, Carriage 5/16UNC x 1/2
36 37 40 41 43 44 45 46 48 49 50 51 52 53	131494 STD551037 73680600 133551 140083 140088 STD624003 137729 133944 133940 131340 STD541410 139888 131845	Pulley, Idler, Flat Washer 13/32 x 13/16 x 16 Gauge Nut, Crownlock Rod, Pivot, with Nibs Rod, Clutch, Secondary, with Nibs Guard, Mandrel, LH Retainer Screw, Hex Hd, Thdcut 1/4-20 x 5/8 Washer, Hardened Roller Assembly, Cam Follower Bolt, Shloulder #10-24 Grade 5 Locknut Bolt, Shoulder 5/16-18 UNC Arm Assembly, Pad, Brake	117 118 119 121 128	130794 145411	Bolt, Shoulder Wheel, Gauge Nut, Centerlock 3/8-16 Washer 3/8 x 7/8 x 14 Ga. Bracket, Extruded Gauge Wheel Washer Felt Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 33) Mower Deck, Complete (Standard Deck; Order Mulcher Plate and Gauge Wheel Components Separately - Key Nos. 101-106, 111-119, 121) nent dimensions given in U.S. inches

#### **TRACTOR - - MODEL NUMBER 917.256563**

PEERLESS TRANSAXLE - MODEL NUMBER 930-057

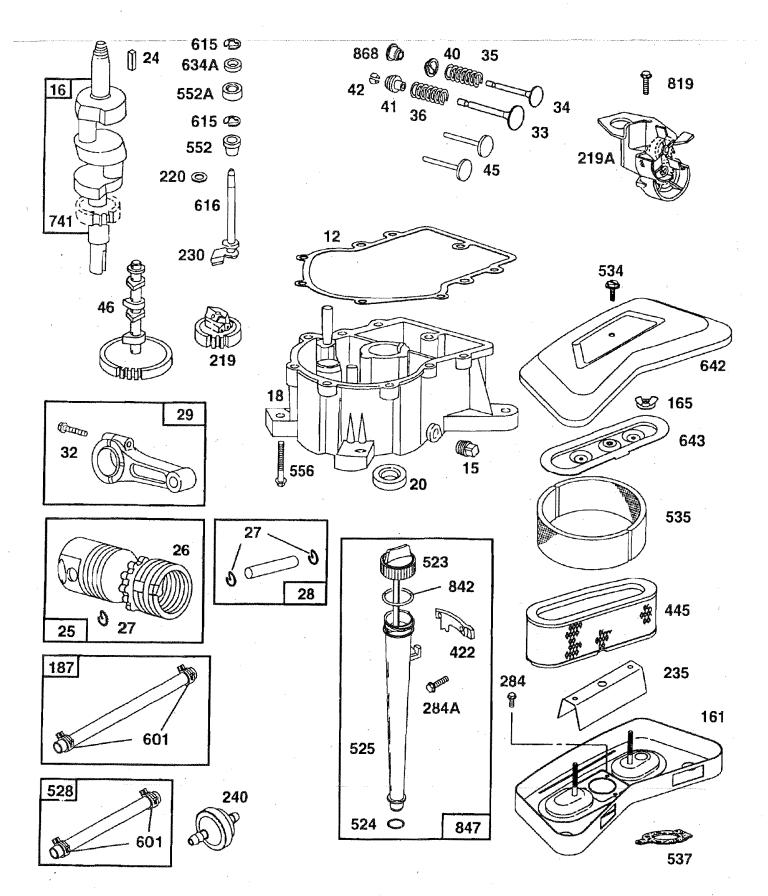


#### TRACTOR - - MODEL NUMBER 917.256563

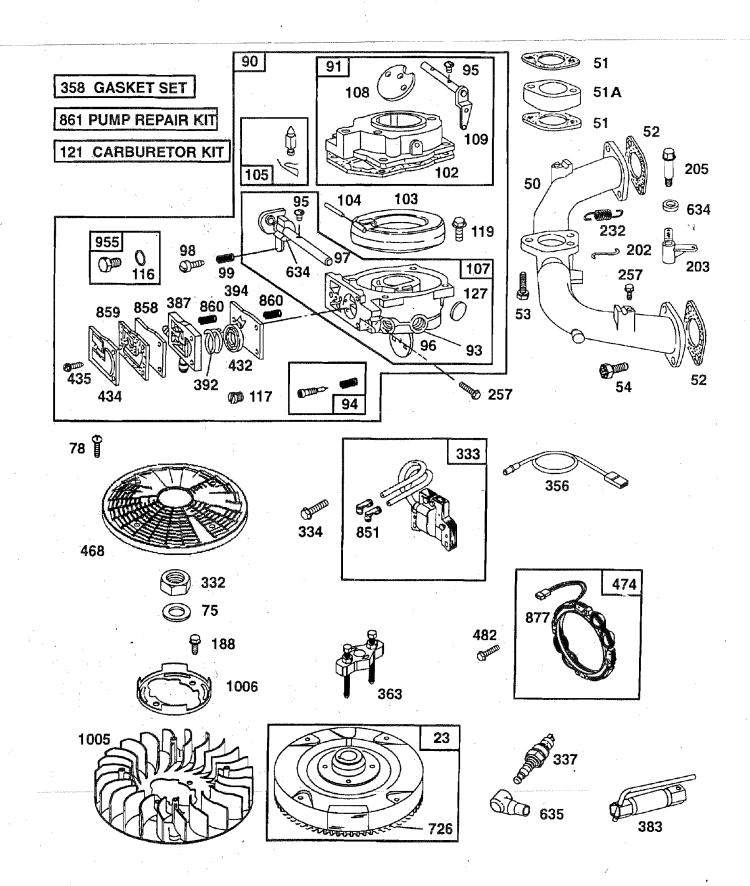
#### PEERLESS TRANSAXLE - MODEL NUMBER 930-057

REF NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	772108A	Cover, Transaxle	43	792075	Locknut 5/16-24
	780086	Bearing, Needle	44	790025	Holder, Brake Pad
3	770102A	Case, Transaxle		786066	Spacer
	776260	Shaft, Counter		786086	Bracket, Brake Lever
5	776219B	Shaft and Pinion Assembly, Output	47	774690	Axle 11-5/16" long
	778139	Gear, Output, 35 Teeth	48	774691	Axle 16-1/2" long
		Gear, Spur, 15 Teeth, Steel	49	778215	Gear, Spur, 37 Teeth, Steel (1-)
7	778136			778125	Gear, Spur, 35 Teeth (2-)
8	792136A	Key, Shift	51		
	792047	Key, Woodruff		778124A	Gear, Spur, 30 Teeth (3-)
9	784352	Collar, Shifter	52	778123A	Gear, Spur, 25 Teeth (4-)
	784355	Rod and Fork Assembly, Shift		778122A	Gear, Spur, 22 Teeth (5.)
11	778229	Gear, Bevel, 42 Teeth	54	778273	Gear, Spur, 19 Teeth, Steel (6)
12	778113A	Bevel Pinion, Input	56	778230	Gear, Spur, 12 Teeth, Steel (1)
13	778221	Gear, Bevel, 16 Teeth	57	778151	Gear, Spur, 15 Teeth (2-)
14	778068	Gear, Bevel Pinion	58	778126A	Gear, Spur, 20 Teeth (3)
15	778260	Gear, Ring	59.	778127A	Gear, Spur, 25 Teeth (4-)
17	786139	Pin, Drive	60	778128A	Gear, Spur, 28 Teeth (5)
18	786102	Spacer, Neutral	61	778163	Gear, Spur, 31 Teeth (6-)
20	792077	Ball, Steel 5/16" diameter	65	780109	Washer, Thrust
21	792078	Set Screw 3/8-16 x 3/8	66	776135	Shaft, Input
	792079	Spring	67	776315A	Shaft, Brake, 4 Keyed
23	788061	Ring, Seal	68	786116A	Plug
	792073	Screw, Flanged Hex Head, Thread	69	780051	Washer, Thrust
	, 020, 0	Forming 1/4-20 x 1-1/4	70	786118	Spacer
26	792125	Ring, Retainer	71	788069	Square Cut Ring
20	702120	(4 Required, Package of 2)	72		Plug, Threaded 9/16-18
27	792035	Ring, Retainer		788091	"O" Ring
28	788040	Ring, Retainer	76	780090	Washer, Thrust
26 29	780072	Washer, Thrust	77	788078A	Ring, Retaining, Inverted
30		Washer, Thrust	,,	1000107	(Package of 2)
	780108		79	792144	Carina Broko
31	780001	Washer	81	786081	Spring, Brake
	792001	"O" Ring	01	700001	Chain, Roller
	788095	Seal, Square Cut	00	700000	(Number 41 Chain, 24 Links)
34	780105A	Bushing, Flanged		786082	Sprocket, 9 Teeth (Reverse)
	780118A	Bushing, Flanged		786123	Sprocket, 18 Teeth (Reverse)
	790003			788067B	Grease, Bentonite, 32 Ounce Bottle
	790007	Plate, Brake Pad	103	792166	Screw 1/4-20 x 2
38	799021	Pad, Brake (Package of 2)		792167	Locknut 1/4-20
39	786026	Pin, Dowel	150	510334	Gasket Eliminator (Loctite #515)
	792076A	Washer, Flat			·
41	790079	Lever, Brake	NOT		ent dimensions given in U.S. inches
42	792073	Screw, Flanged Hex Head, Thread		1 inch = 25.4	
		Forming 1/4-20 x 1-1/4			
42A	792085A	Screw 1/4-20 x 2-1/4	Parts	must be ordere	ed from Tecumseh Products Co.
		· · ·			

TRACTOR - - MODEL NUMBER 917.256563
BRIGGS & STRATTON ENGINE - MODEL NUMBER 42A707, TYPE NUMBER 1624-01



## TRACTOR - - MODEL NUMBER 917.256563 BRIGGS & STRATTON ENGINE - MODEL NUMBER 42A707, TYPE NUMBER 1624-01



## **ASSEMBLY**

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

#### TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 5/16" wrench
- (1) 9/16" wrench
- (2) 7/16" wrenches
- (1) Phillips screwdriver
- (2) 1/2" wrenches
- Utility knife
- (1) 3/4" wrench
- Tire pressure gauge
- (1) 3/4" socket with drive ratchet

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

#### TO REMOVE TRACTOR FROM CARTON

#### **UNPACK CARTON**

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

#### BEFORE ROLLING TRACTOR OFF SKID

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

ASSEMBLE EXTENSION SHAFT AND BOOT

 Slide extension shaft onto lower steering shaft. Align mounting holes in extention and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.

**IMPORTANT:** TIGHTEN BOLT AND NUT SECURELY TO 18-22 FT. LBS TORQUE.

 Place tabs of steering boot over tab slots in dash and push down to secure.

#### INSTALL STEERING WHEEL

- Position front wheels of the tractor so they are pointing straight forward.
- Slide steering wheel adapter onto steering shaft extension.
- Position steering wheel and sleeve assembly so cross bars are horizontal (left to right) and slide onto adapter.
- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective plastic from tractor hood and grill.

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

## TO ROLL TRACTOR OFF SKID (See Operation section for location and function of controls)

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.

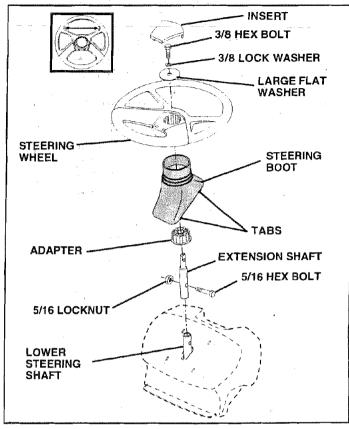


FIG. 1

- Place gearshift lever in neutral (N) position.
- Roll tractor backwards off skid.
- Remove banding holding discharge guard up against tractor.

#### **CONNECT BATTERY (See Fig. 2)**

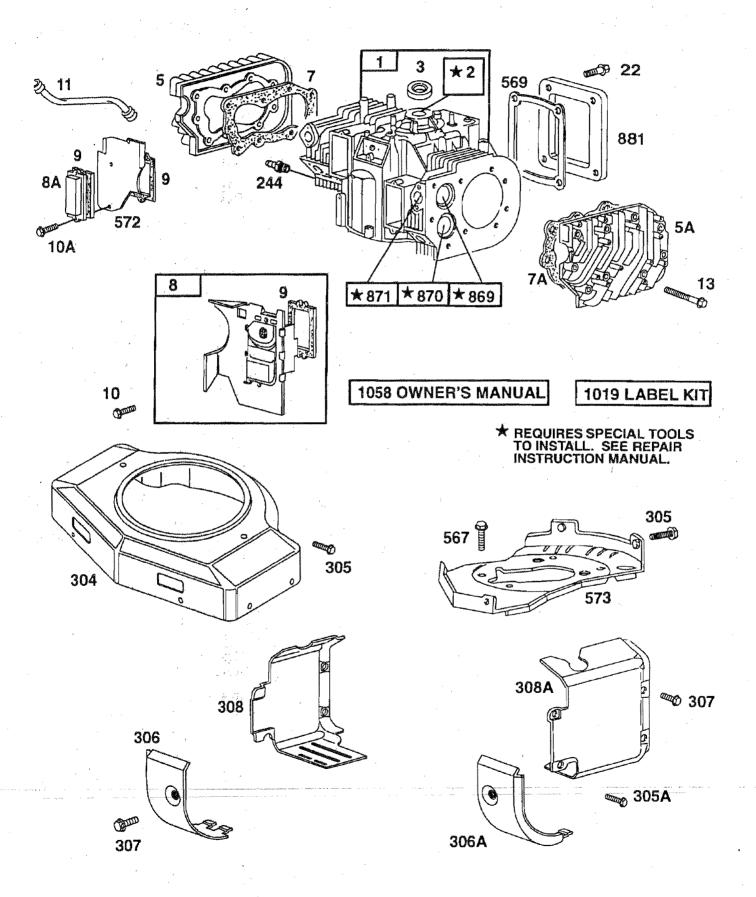


CAUTION: Do not short battery terminals. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc.

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

- Lift hood to raised position.
- Open terminal access doors, remove terminal protective caps and discard.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps.
- First connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lock washer and he nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- 7 Close terminal access doors.

## TRACTOR - - MODEL NUMBER 917.256563 BRIGGS & STRATTON ENGINE - MODEL NUMBER 42A707, TYPE NUMBER 1624-01



#### **TRACTOR - - MODEL NUMBER 917.256563**

#### BRIGGS & STRATTON ENGINE - MODEL NUMBER 42A707, TYPE NUMBER 1624-01

KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	497074	Cylinder Assembly	<u>54</u>	94764	Screw, Sems
2	399265	Bushing	75	222511	Washer, Spring
3	391086	* Seal, Oil	78	94834	Screw, Sems
5	493457	Head, Cylinder #1	90	495181	Carburetor
5A	493458	Head, Cylinder #2	91	495035	Body Assembly, Upper
7	271867	* Gasket, Cylinder Head #1	93	231209	Bushing, Throttle Shaft
7Å	271868	* Gasket, Cylinder Head #2	94	491538	** Valve, ldle Adjust
8	495754	Breather Assembly #1	95	93499	Screw, Sems
8Ă	222892	Cover, Breather Cylinder #2	96	221939	Valve, Throttle
٠, ١		(Used Only on Key #572,	97	392672	Shaft, Throttle
		Air Baffle with Holes for Mounting)	98	91920	Screw, Fillister Head
a	27803		99	26157	Spring, Throttle Adjust
		* Gasket, Breather		271607	** Gasket, Carburetor Body
	94382	Screw, Sems		298514	
	94830	Screw, Sems			Float, Carburetor
	280225	Tube, Breather		230896	** Pin, Float Hinge
12	271703.	* Gasket, Crankcase, .015" Thick		394683	** Valve, Needle
	271188	* Gasket, Crankcase, .005" Thick		491543	Body Assembly, Lower
	271189	* Gasket, Crankcase, .009" Thick		223534	Valve, Choke
	94565	Screw, Cylinder Head		392673	Shaft, Choke
15	94239	Plug, Oil Drain		280474	* O-Ring
16	394028	Crankshaft	117	231338	Jet, Needle Valve, Fixed
	94196	Timing Gear Key		231333	Jet, Needle Valve, Fixed,
18	493304	Sump, Engine			High Altitude
20	291675	* Seal, Oil	119	94152	Screw, Hex Head
22	94724	Screw, Sems	121	491539	Carburetor Kit
23	491180	Flywheel		223472	** Plug, Welch
24	222698	Key, Flywheel		496599	Base, Air Cleaner
25	394955	Piston Assembly, Standard Size		94289	Nut, Wing
	394956	Piston Assembly, .010" Oversize		299146	Line, Fuel, 28" Long (Cut to Suit)
	394957	Piston Assembly, .020" Oversize		94627	Screw
	394958	Piston Assembly, .030" Oversize		262683	Link
26	394959	Ring Set, Standard Size		262684	Link
2.0	394960	Ring Set, 010" Oversize		280997	Crank, Bell
	394961	Ring Set, .020" Oversize		93971	Screw, Hex Head
		Ding Set, 020 Oversize		94298	Nut, Square
07	394962	Ring Set, .030" Oversize		262337	Spring, Control Rod
27	260924	Lock, Piston Pin		262352	Spring, Control 1100
28	299691	Pin, Piston, Standard Size			Spring, Governor Idla
00	391286	Pin, Piston, .005" Oversize		261563	Spring, Governor Idle
29	394306	Rod, Connecting, Standard Size	219	394348	Gear, Governor
	397158	Rod, Connecting, .020" Undersize		393415	Oil Slinger
32	94671	Screw, Connecting Rod	222	491282	Bracket, Control
33	390420	Valve, Exhaust	224	94297	Screw, Pan Head
34	261528	Valve, Intake	227	491297	Lever Assembly, Governor
35	65906	Spring, Valve, Intake			0 1 10 1 (10 000)
36	26828	Spring, Valve, Exhaust	*	Included in	Gasket Set (495868)
40	221596	Retainer, Valve, Intake			
41	292260	Retainer, Valve, Exhaust	**	Included in	Carburetor Kit (491539)
42	94553	Keeper, Valve			
45	261368	Tappet, Valve	. ***	Included in	Carburetor Kit (491539),
46	213520	Gear, Cam			Repair Kit (393397)
50	213290	Manifold, Intake		· , 「	
51	271412	**** Gasket, Carburetor Mounting	***	Included in	Gasket Set (495868),
	81411	Spacer, Carburetor			etor Kit (491539)
52	270884	* Gasket, Intake Manifold Mounting			
53	93970	Screw, Hex Head,	NOT	E: All comp	onent dimensions given in U.S. inches
٠,	30370	Carburetor to Manifold			25.4 mm
		Carparetor to warmon			<del></del>

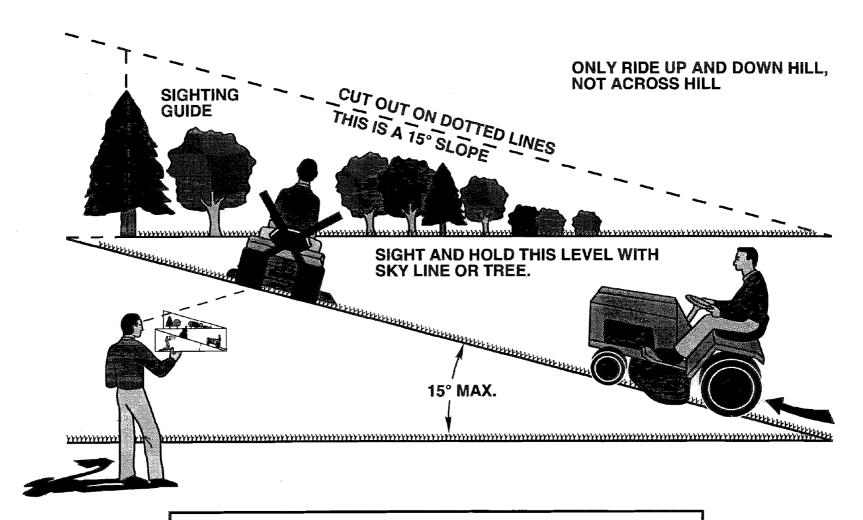
#### TRACTOR - - MODEL NUMBER 917.256563

#### BRIGGS & STRATTON ENGINE - MODEL NUMBER 42A707, TYPE NUMBER 1624-01

KEY PART		~	*	
NO. NO.	DESCRIPTION	KEY I NO. I		DESCRIPTION
230 223882	Washer, Governor Crank, Inside		_	
235 224995	Shield, Fuel Spray	569 2	272645	* Gasket, Base
240 394358	Filter, Fuel	5/2 2	224816	Baffle, Air, Cylinder #2
244 230318	Connector, Fuel Line		191304	Plate, Back
257 93897	Screw, Sems	592		Nut, Hex.
258 94623	Screw, Sems	601 9		Clamp, Hose
259 223890	Bracket, Cable	615		Retainer, E-Ring
265 221535	Clamp, Casing		191530	Crank, Governor
267 94906	Screw, Sems		271013	** Washer, Throttle Shaft
284 94674	Screw, Hex Head		491287	* Seal, Governor Shaft
284A 94694	Screw, Hex Head	635 6		Boot, Spark Plug
304 495587	Housing, Blower, Red		225008	Cover, Air Cleaner
305 94786	Screw, Sems	643 4	196700	Plate, Air Cleaner
305A 93343	Screw, Sems	653 9	93585	Screw, Hex Head
306 222846	Shield, Cylinder	/26 3	391362	Gear, Ring
306A 223734	Shield, Cylinder	744 6		(Includes Mounting Parts)
307 94386	Screw, Self-Tapping		262989	Gear, Timing
308 224774	Cover, Air Guide		280104	Gear, Starter
308A 224775	Cover, Air Guide		394860	Cap, Drive
309 497596	Motor, Starter		197607	Cap, End
310 94003	Bolt, Thru		197604	Housing, Starter
311 497608	Brush Set	819 9		Screw, Hex Head
332 230674	Nut, Hex	842 2	70920	* Seal, Cap
333 394891	Armature, Magneto		95715	Tube Assembly, Oil
334 93381	Screw, Sems Plug, Spark	851 2	21798	Terminal, Cable
337 802592	Plug, Spark	858 2	70989	*** Diaphragm, Carburetor
356 494705	Wire, Stop	859 2	271025	*** Gasket, Pump
358 491856	Gasket Set		261358	*** Spring, Diaphragm
363 19203	Flywheel Puller	861 3		Repair Kit, Pump
383 89838	Wrench, Spark Plug		97212	Seat, Valve Intele
387 280197	Body, Pump		261463	Seat, Valve, Intake
392 261395	*** Spring, Diaphragm	870 <i>2</i> 871 2	13316	Seat, Valve, Exhaust
394 270988	*** Diaphragm, Carburetor		231218	Bushing, Guide (Exhaust Only)
414 220680	Washer Oil Fill	877 3		Bushing, Guide (Intake, Brass)
422 222875	Bracket, Oil Fill	881 4		Wire, Alternator Plate, Cover
432 221377	*** Cap, Spring		97882	Plug and Seal, Solenoid
434 223688 435 93829	Cover, Diaphragm		281053	Fan, Flywheel
445 394019	Screw, Diaphragm Cover	1006	224413	Retainer, Fan
468 897908	Filter, Air	1019	496726	Label Kit
474 393474	Screen, Rotating Alternator, Dual Circuit		272112	Owner's Manual
482 93621	Screw, Sems	1090	497605	Retainer, Brush
510 497606	Drive, Starter	1000	457 000	ricialici, biasii
523 494947	Cap, Oil Fill	F	RPM Setting	rs: Low Speed: 1600-1800
524 271157	* Seal, Fill Tube	•	" " Ootting	High Speed: 3200-3400
525 495348	Tube, Oil Fill (Includes Seals)			1 light opeds. 2200 0400
528 393815	Pipe, Fuel	* lı	ncluded in G	Gasket Set (495868)
534 94823	Screw, Air Cleaner		nordaed in e	, address 551 (155555)
535 72490	Filter, Air	**	ncluded in C	Carburetor Kit (491539)
537 271411	**** Gasket, Air Cleaner		,	
544 497603	Armature, Starter	***	ncluded in C	Carburetor Kit (491539),
552 262332	Lower Bushing, Governor		ind Pump R	lepair Kit (393397)
552A 262331	Upper Bushing, Governor			
556 93585	Screw, Hex Head	**** li	n <mark>cluded in</mark> G	Gasket Set (495868),
562 93853	Bolt, Governor Lever			tor Kit (491539)
567 94811	Screw, Hex Head,			<u></u>
<b>3</b> .3.1	Back Plate to Cylinder	NOTE	: All compo	nent dimensions given in U.S. inches
		,	1 inch = 2	5.4 mm
•	•			

## SERVICE NOTES

## SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





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

## SEARS

# OWNER'S MANUAL

MODEL NO. 917.256563

#### IF YOU NEED REPAIR SERVICE OR PARTS:

FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER:

1-800-4-REPAIR (1-800-473-7247)

FOR REPLACEMENT PARTS
INFORMATION AND
ORDERING, CALL THIS
TOLL FREE NUMBER:

1-800-FON-PART (1-800-366-7278)

FOR CONSUMER ASSISTANCE HOT LINE, CALL THIS TOLL FREE NUMBER:

1-800-659-5917

## **CRAFTSMAN®**

#### 19.0 HP TWIN CYLINDER ELECTRIC START 42" MOWER 6 SPEED TRANSAXLE LAWN TRACTOR

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

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

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

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

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

- PRODUCT TRACTOR
- MODEL NUMBER 917.256563
- ENGINE MODEL NO. 42A707, TYPE NO. 1624-01
- PART NUMBER
- PART DESCRIPTION

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

155159 5.9.96 JH

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