# For Copying Only

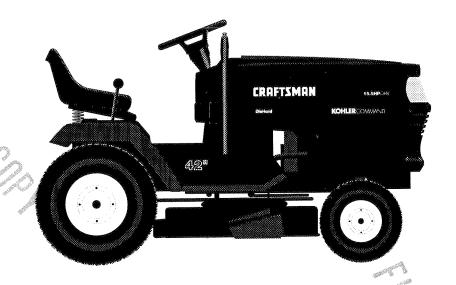
# CRAFTSMAN

MODEL NUMBER 917.257651 OWNER'S MANUAL

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



same as 944.604250



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



### 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.

#### GENERAL OPERATION

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

#### II. SLOPE OPERATION

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

#### DO:

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

#### DO NOT

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

#### III. CHILDREN

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

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

#### IV. SERVICE

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



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



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

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

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

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

MODEL NUMBER	917.257651
SERIAL NUMBER	
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1	AND SERIAL NUMBERS WILL BE FOUND UNDER THE SEAT.
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### MAINTENANCE AGREEMENT

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

### **CUSTOMER RESPONSIBILITIES**

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

P	F	C	D	U	C	SP	EC	FIC	CAT	'IONS	

HORSEPOWER:	15.5
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SG):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/ FILTER: 4.0 PINTS W/O FILTER: 3.5 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RC12YC
VALVE CLEARANCE:	INTAKE: .0015"0030" EXHAUST: .0020"0035"
GROUND SPEED (MPH):	FORWARD:  1st 1.14 2nd 1.49 3rd 2.34 4th 3.49 5th 4.45 6th 5.68 REVERSE: 1.75
TIRE PRESSURE:	FRONT: 14 PSI REAR: 12 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BLADE BOLT TORQUE:	30-35 FT. LBS.

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

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

### LIMITED TWO YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

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

This Warranty does not cover:

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

### **LIMITED 90 DAY WARRANTY ON BATTERY**

For 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.

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

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

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

### **TABLE OF CONTENTS**

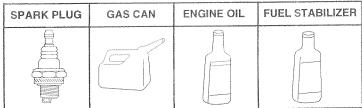
SAFETY RULES	***************************************	MAINTENANCE S	SCHEDULE1
PRODUCT SPECIFICATIONS		SERVICE AND A	DJUSTMENTS19-2:
<b>CUSTOMER RESPONSIBILITIES</b>			***************************************
WARRANTY	2 -	LDUIIDI EGNUU.	TING25-26
TRACTOR ACCESSORIES		DEDAID DADTO	TP 6070P
		HEPAIR PARIS	TRACTOR28-4
ASSEMBLY		REPAIR PARTS -	ENGINE44-5
OPERATION	· · · · · · · · · · · · · · · · · · ·	PARTS ORDERIN	IG/SERVICEBACK COVER
INDEX		4 .	
A	- green.		0
Accessories5	Electrical:		Oil:
Adjustments:	Interlocks and Relay	s22	Cold Weather Conditions 13,17
Brake21	Schematic		Engine17
Carburetor23	Wiring Diagram		Storage24
Mower	Engine:		Operation11-14
Front-To-Back20	Air Filter	17	
Side-To-Side20	Air Screen	12	Operating Mower13
Throttle Control Cable23	Cooling Fins	10	Options:
Air Filter, Engine	Oil Change	17	Accessories5
	Oil Level	13	Spark Arrester3,36
Air Screen, Engine18	Oil Type		
Assembly	Preparation	19	Р
	Repair Parts	44-51	Parking Brake11-12
В	Starting	14	
Battery:	Storage		Parts Bag6
	otorago		Parts, Replacement/Repair28-45
Charging8	grada grada		Product Specifications3
Cleaning16			•
Installation9	Filter:		B R
Levels	Air Filter		
Preparation	Fuel	18	Repair Parts28-45
Starting with Weak Battery22	Fuel:		
Storage24 Terminals	Туре	13	S
	Storage	24	Safety Rules2
Belt:	Fuse		Seat8
Motion Drive			
Removal/Replacement21	H		Service and Adjustments19-23
Mower Belt(s)			Carburetor23
Removal/Replacement21	Hood Removal/Installation	n22	Fuse22
Blade:			Hood Removal/Installation22
Sharpening16	· · · · · · · · · · · · · · · · · · ·		Motion Drive Belt
Replacement16	Leveling Mower Deck	20	Removal/Replacement21
Brake Adjustment21	. •		Mower Belt(s)
	Lubrication:	4.5	Removal/Replacement21
<u>C</u>	Chart	15	Mower Adjustment
· · · · · · · · · · · · · · · · · · ·	Engine		Front-to-Back20
Carburetor Adjustment23			Side-to-Side20
Controls, Tractor11	M		Mower Removal/Installation 19
Customer Responsibilities 15-18	Maintenance Schedule	15	Tire Care8,16,22
Engine:	Mower:		Slope Guide Sheet55
Air Filter17	Adjustment, Front-to-	Back 20	Spark Plug(s)18
Air Screen18	Adjustment, Side-to-S		Specifications3
Cooling Fins18	Blade Replacement.	16	
Engine Oil	Blade Sharpening		Starting the Engine13-14
Fuel Filter18	Cutting Height	10	Steering Wheel7,22
Spark Plug(s)18	Installation	10	Stopping the Tractor12
Tractor:	Operation	12	Storage24
	Removal	10	otologo
Battery	1 (C1110 Val		. siegee
Battery16 Blade16	Mouring Tine		
Blade16	Mowing Tips		
Blade16 Lubrication Chart15	Muffler	18	Throttle Control Cable Adjustment23
Blade		18	
Blade	Muffler	18	Tires8,16,22
Blade       16         Lubrication Chart       15         Maintenance Schedule       15         Tire Care       8,16,22         Transaxle       17	Muffler	18	Tires:
Blade       16         Lubrication Chart       15         Maintenance Schedule       15         Tire Care       8,16,22         Transaxle       17	Muffler	18	Tires8,16,22
Blade       16         Lubrication Chart       15         Maintenance Schedule       15         Tire Care       8,16,22         Transaxle       17	Muffler	18	Tires:
Blade       16         Lubrication Chart       15         Maintenance Schedule       15         Tire Care       8,16,22         Transaxle       17	Muffler	18	Tires
Blade	Muffler	18	Tires

Wiring Schematic ......27

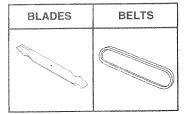
### **ACCESSORIES AND ATTACHMENTS**

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**



#### 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, 42-inch wide blade clears 38-inch path when angled left or right. Raises, lowers with side lever. Adjustable skids; replaceable, reversible scraper bar. (Use with tire chains 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.

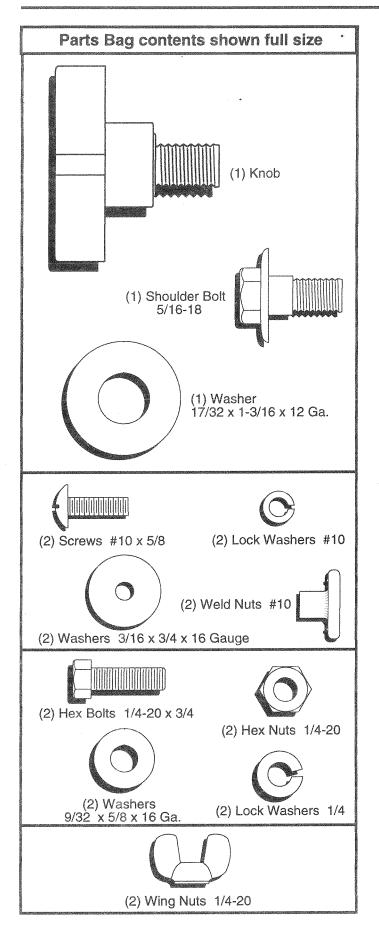
**TRACTOR CAB** has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl sides and windshields for use as sun protector in summer. **Optional accessories include:**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

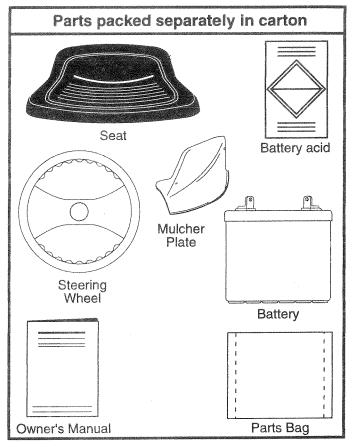
VACS for powerful collection of heavy grass clippings and leaves. Optional wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

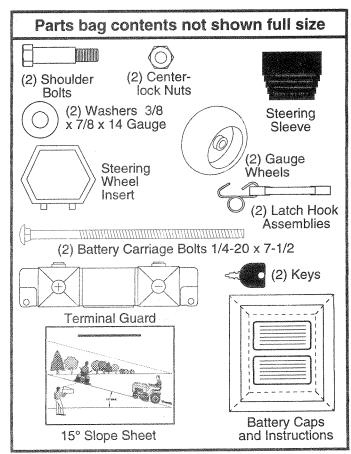
**WEIGHT BRACKET** for drawbar for snow removal applications. Uses (1) 55 lb. weight.

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

### **CONTENTS OF HARDWARE PACK**







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.

(2) 7/16" wrenches

3/4" Socket w/drive ratchet

(1) 1/2" wrench

Tire pressure gauge

(1) 9/16" wrench

Phillips Screwdriver

Utility knife

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

### TO REMOVE 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)

- Remove locknut and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Slide the steering sleeve over the steering shaft.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto adapter.
- Secure steering wheel to steering shaft with locknut and large flat washer previously removed. 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.

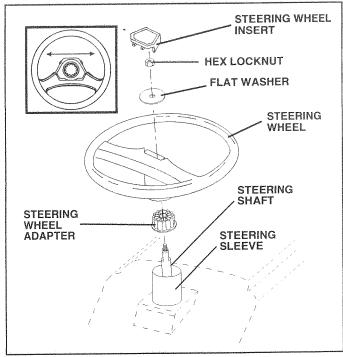


FIG. 1

### TO ROLL TRACTOR OFF SKID (See Fig. 8)

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

### **HOW TO SET UP YOUR TRACTOR**

### PREPARE BATTERY (See Fig. 2)

CAUTION: Wear eye and face shield.



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

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

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

Your 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.

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

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

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

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

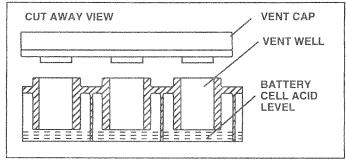


FIG. 2

### **INSTALL SEAT (See Fig. 3)**

Adjust seat before tightening adjustment knob.

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

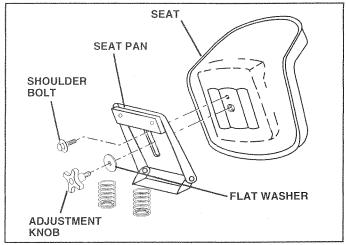


FIG. 3

### **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.

### **INSTALL BATTERY (See Figs. 4 and 5)**



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

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

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

Use terminal access doors for:

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

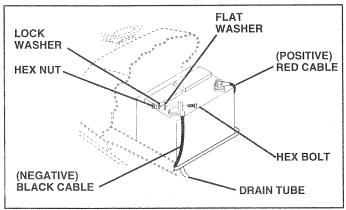


FIG. 4

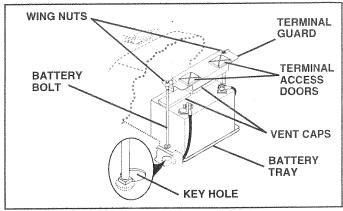


FIG. 5

### ASSEMBLE GAUGE WHEELS TO MOWER DECK (See Fig. 6)

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.

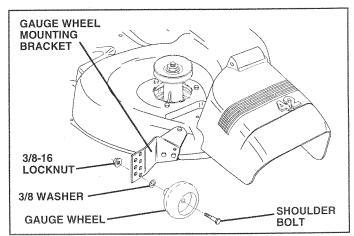


FIG. 6

### **INSTALL MULCHER PLATE (See Figs.7A & 7B)**

 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.

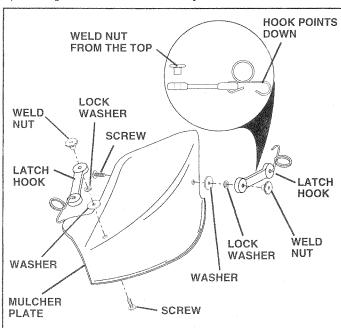


FIG. 7A

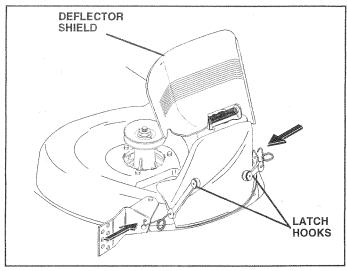


FIG. 7B

### ✓ 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.

### **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 location of various controls and adjustments. Save this manual for future reference.

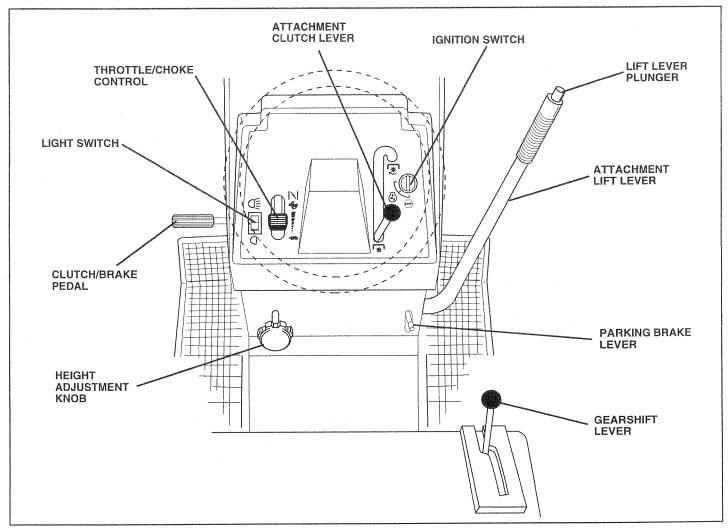


FIG. 8

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

**ATTACHMENT CLUTCHLEVER** - Used to engage mower blades or other attachments mounted to your tractor.

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

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

**HEIGHT ADJUSTMENT KNOB** - Used to adjust the mower height.

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

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

**IGNITION SWITCH** - Used to start and stop the engine. **PARKING BRAKE LEVER** - Locks clutch/brake pedal into the brake position.

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

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



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 for over the spectacles or standard safety glasses.

### **HOW TO USE YOUR TRACTOR**

### TO SET PARKING BRAKE (See Fig. 9)

- 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.

### STOPPING (See Fig. 9)

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.

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

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving 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. 9)

Always operate engine at full throttle.

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

### TO MOVE FORWARD AND BACKWARD (See Fig. 9)

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.

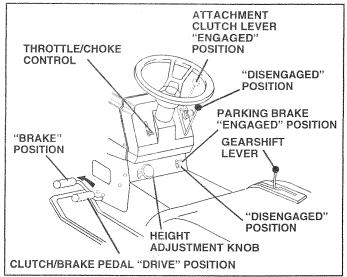


FIG. 9

### TO ADJUST MOWER CUTTING HEIGHT (See Fig. 9)

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. 10)

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.

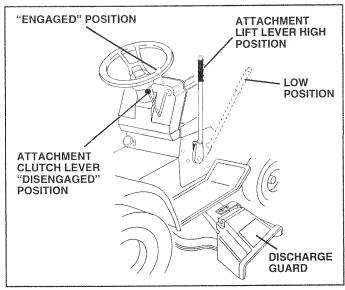


FIG. 10

#### 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. 17)

- 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.
- Unthread and remove oil fill cap/dipstick; wipe oil off. Reinsert the dipstick into the tube and rest oil fill cap on the tube. Do not thread the cap onto the tube. Remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

#### ADD GASOLINE

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

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

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



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

### TO START ENGINE (See Fig. 9)

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

- Depress clutch/brake pedal and set parking brake.
- Place gearshift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control lever to choke (|\|) position for cold engine start. For warm engine start, move throttle control to fast (\*) position.
- 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 engine does not start after several attempts, move throttle control to fast (4) position, wait a few minutes and try again.
- When engine starts, move throttle control to desired position.
- Allow engine to warm up for a few minutes before engaging drive or attachments.

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

### **MOWING TIPS**

- Tire chains cannot be used when the mower housing is attached to unit.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- 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. 11).
- 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.

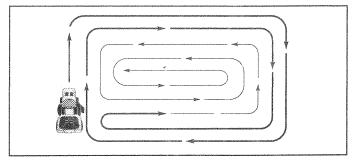


FIG. 11

#### **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. 12). 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.

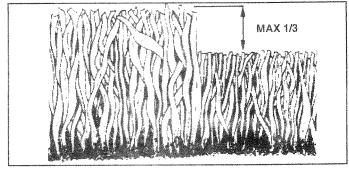


FIG. 12

F	MAINTENANCE SCHEDULE FILL IN DATES AS YOU COMPLETE REGULAR SERVICE	B	EFORE E	RST 2	SE HOURS VERY 8	HOURS VERY ?	SHOURS SHOURS WERY S	HOUP WERY !	S HOUP OO HOUP VERY SY	S ON ASON EFORE	SER	VICE	DAT	ΓES
	Check Brake Operation													
	Check Tire Pressure			W										
	Check for Loose Fasteners	V							6					
F	Sharpen/Replace Mower Blades				4									
1	Lubrication Chart				8/									
	Check Battery Level/Recharge				Service .									
8 7	Clean Battery and Terminals				Ser.				<b>W</b>					
IF	Check Transaxle Cooling				6/									
	Adjust Blade Belt(s) Tension						<b>1</b> 5							
	Adjust Motion Drive Belt(s) Tension					inscressivencensor	<b>6</b> 5					and the second second		
	Check Engine Oil Level	V		Barre .										
	Change Engine Oil		V		1,2,3				8					
E	Clean Air Filter				<b>1</b> 2									
	Olassa Africanasa				2									
lo														
	Replace Oil Filter (If equipped)						1,2							
I.	Clean Engine Cooling Fins						<b>1</b> 2							
E	Replace Spark Plug						V	V						
	Replace Air Filter Paper Cartridge						<b>1</b> 2							
	Replace Fuel Filter	With the second						<b>V</b>			***************************************			

- 1 Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions.

- 3 If equipped with oil filter, change oil every 50 hours.
- 4 Replace blades more often when mowing in sandy soil.
- 5 If equipped with adjustable system.

### GENERAL RECOMMENDATIONS

The warranty on this 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.

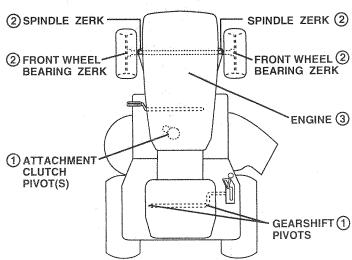
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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 API SG
- (2) GENERAL 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, POW-15 DERED 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. 13)**

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

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

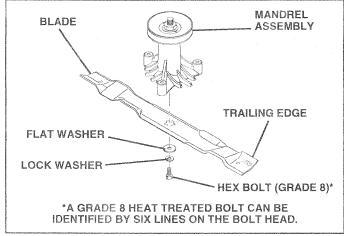


FIG. 13

### TO SHARPEN BLADE (See Fig. 14)

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. 16

- 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 bal-
- 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.

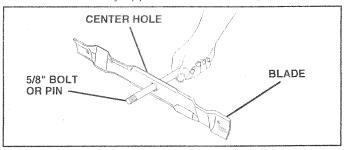


FIG. 14

### BATTERY (See Fig. 15)

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.

- Acid solution level in each battery cell should be even with bottoms of vent wells. Add only distilled or iron free water if necessary. Do not overfill.
- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep vent caps tight and small vent holes in caps open.
- Recharge at 6 amperes for 1 hour.

### TO CLEAN BATTERY AND TERMINALS

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

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

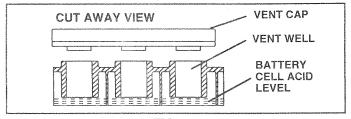


FIG. 15

#### 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 SG. Select the oil's SAE viscosity grade according to your expected operating temperature.

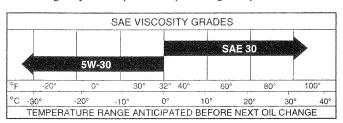


FIG. 16

**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 50 hours thereafter or at least once a year if the tractor is not used for 50 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 Figs. 16 & 17)

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

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill cap/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 cap/dipstick for checking level. Insert dipstick into the tube and rest the oil fill cap on the tube. Do not thread the cap onto the tube when taking reading. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.

### AIR FILTER (See Fig. 17)

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

Service air cleaner more often under dusty conditions.

- · Remove knob and cover.
- · Remove wing nut and air cleaner from base.

#### 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.

#### TO SERVICE CARTRIDGE

- Gently tap the flat side of the paper cartridge to dislodge dirt. Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge. Replace a dirty, bent, or damaged cartridge.
- Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- Reassemble air cleaner, wing nut, cover and tighten knob securely.

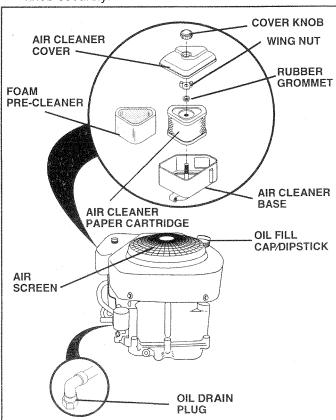


FIG. 17

### CLEAN AIR SCREEN (See Fig. 17)

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

#### **CLEAN AIR INTAKE/COOLING AREAS**

To insure proper cooling, make sure the grass screen, cooling fins, and other external surfaces of the engine are kept clean at all times.

Every 100 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Make sure the cooling shrouds are reinstalled.

**NOTE:** Operating the engine with a blocked grass screen, dirty or plugged cooling fins, and/or cooling shrouds removed will cause engine damage due to overheating.

### **ENGINE OIL FILTER (See Fig. 18)**

Replace the engine oil filter every season or every other oil change if the tractor is used more than 100 hours in one year.

- Drain oil from engine crankcase (See "TO CHANGE ENGINE OIL" in this section of this manual, through step remove drain plug).
- Remove oil filter and wipe off filter adapter.
- Apply a thin coating of new engine oil to the rubber gasket on replacement oil filter.
- Install replacement oil filter on filter adapter. Turn oil filter clockwise until rubber gasket contacts the filter adapter, then tighten filter an additional 1/2 turn.
- Fill crankcase with new oil (See "TO CHANGE EN-GINE OIL" in this section of this manual). For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual.
- Start the engine and check for oil leaks. Correct any leaks before placing engine into full operation.

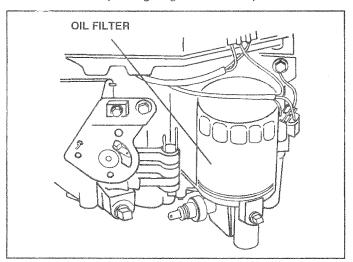


FIG. 18

#### 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 operation, whichever occurs first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

### IN-LINE FUEL FILTER (See Fig. 19)

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.

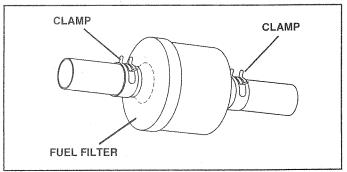


FIG. 19

### **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. 20)

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, THE R.H. AND L.H. SUSPENSION ARMS MUST BE REMOVED FROM TRACTOR.

### TO INSTALL MOWER (See Fig. 20)

- 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.

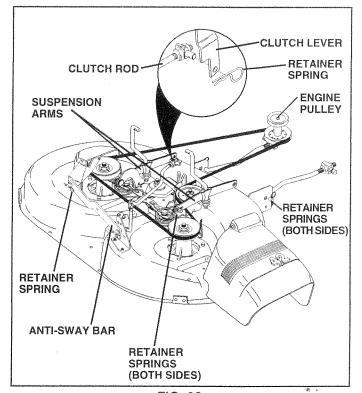


FIG. 20

#### 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. 21 and 22)

- 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**: Three full turns of adjustment nut will change mower height about 1/8".

Recheck measurements after adjusting.

FRONT-TO-BACK ADJUSTMENT (See Figs. 23 and 24)

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.

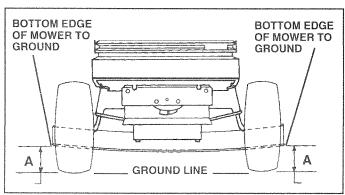


FIG. 21

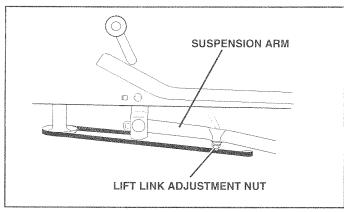


FIG. 22

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.
- · Recheck side-to-side adjustment.

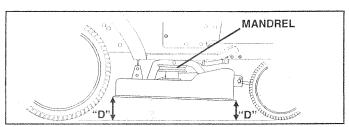


FIG. 23

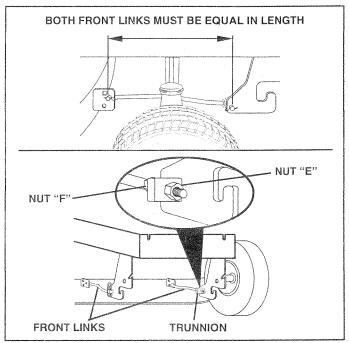


FIG. 24

### TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 25)

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

#### **BELT REMOVAL -**

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

#### BELT INSTALLATION -

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

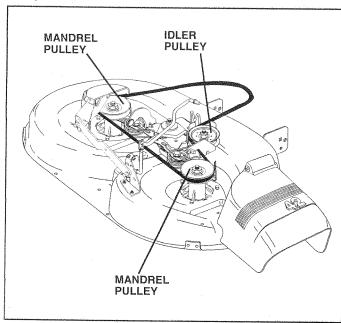


FIG. 25

### TO ADJUST BRAKE (See Fig. 26)

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.

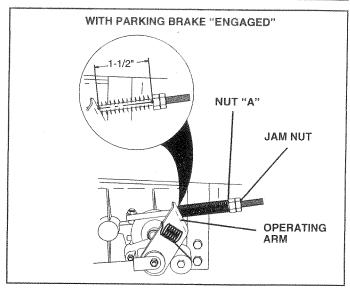


FIG. 26

### TO REPLACE MOTION DRIVE BELT (See Fig. 27)

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.

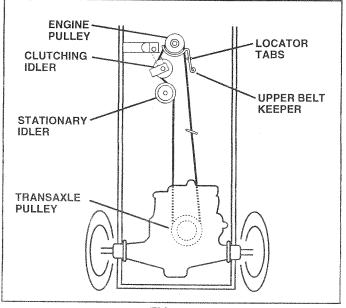


FIG. 27

#### 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/department.

### TO REMOVE WHEEL FOR REPAIRS (See Fig. 28)

- 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 axle cover.

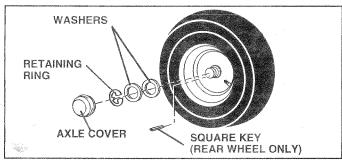


FIG. 28

### TO START ENGINE WITH A WEAK BATTERY (See Fig. 29)



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.

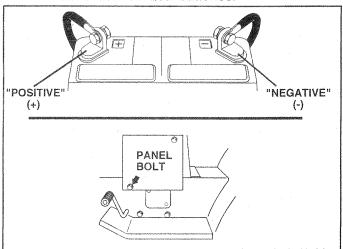


FIG. 29

#### 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 the 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 ASSEMBLY (See Fig. 30)

- Raise hood.
- · Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- To replace, reverse above procedure.

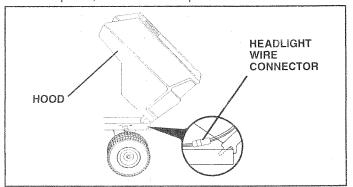


FIG. 30

### **ENGINE**

### TO ADJUST THROTTLE CONTROL CABLE (See Fig. 31)

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

- With engine not running, move throttle control lever from slow (→) to choke (|\|) position. Slowly move lever from choke (|\|) to fast (♣) position.
- Check to see if hole in throttle lever and hole in speed control bracket are aligned.
- If holes are not aligned, loosen cable clamp screw and align the holes by inserting a pencil or a 1/4" drill bit through both holes.
- Pull throttle cable up to remove slack and tighten cable clamp screw. Remove alignment pencil or drill bit.

### TO ADJUST CARBURETOR (See Fig. 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 adjusting needles **in** (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the adjusting needles **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 NEEDLE IS TURNED IN TOO TIGHT.

#### PRELIMINARY SETTING -

- Be sure you have a clean air filter and the throttle control cable is adjusted properly (see above).
- With engine off turn idle fuel adjusting needle in (clockwise) closing it finger tight and then turn out (counterclockwise) 1 turn.

#### FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- Idle speed setting With throttle control lever in slow ( ) position, engine should idle at 1750 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- Idle fuel needle setting With throttle control lever in slow () position, turn idle fuel adjusting needle in (clockwise) until engine begins to die and then turn out (counterclockwise) approximately 1/8 to 1/4 turn to obtain best low speed performance.
- Recheck idle speed. Readjust if necessary.

#### **ACCELERATION TEST -**

Move throttle control lever from slow ( ) to fast ( ) position. If engine hesitates or dies, turn idle fuel adjusting needle 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 YOUTHINK 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.

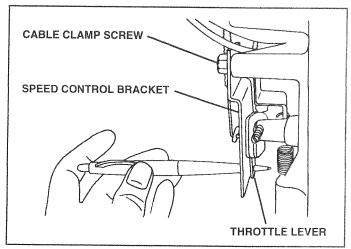


FIG. 31

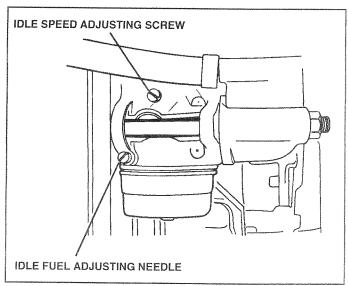


FIG. 32

### 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

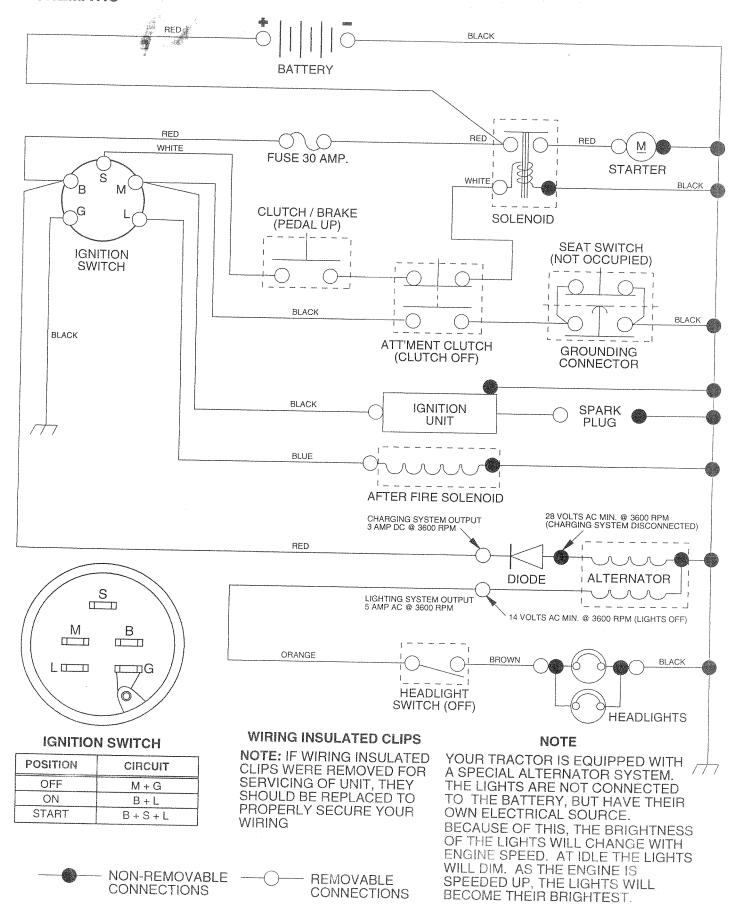
PROBLEM	CAUSE	CORRECTION .
Will not start	<ol> <li>Out of fuel.</li> <li>Engine not "CHOKED" properly.</li> <li>Engine flooded.</li> <li>Bad spark plug.</li> <li>Dirty air filter.</li> <li>Dirty fuel filter.</li> <li>Water in fuel.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> <li>Engine valves out of adjustment.</li> </ol>	<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> <li>Contact an authorized service center/department.</li> </ol>
Hard to start	<ol> <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>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>
ingine will not turn over	<ol> <li>Clutch/brake pedal not depressed.</li> <li>Attachment clutch is engaged.</li> <li>Weak or dead battery.</li> <li>Blown fuse.</li> <li>Corroded battery terminals.</li> <li>Loose or damaged wiring.</li> <li>Faulty ignition switch.</li> <li>Faulty solenoid or starter.</li> <li>Faulty operator presence switch(es).</li> </ol>	<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>
ngine clicks but will not tart	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.  ***********************************
oss of power	<ol> <li>Cutting too much grass/too fast.</li> <li>Throttle in "CHOKE" position.</li> <li>Build-up of grass, leaves and trash under mower.</li> <li>Dirty air filter.</li> <li>Low oil level/dirty oil.</li> <li>Faulty spark plug.</li> <li>Dirty fuel filter.</li> <li>Stale or dirty fuel.</li> <li>Water in fuel.</li> <li>Spark plug wire loose.</li> <li>Dirty engine air screen/fins.</li> <li>Dirty/clogged muffler.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> <li>Engine valves out of adjustment.</li> </ol>	<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>
cessive vibration	<ol> <li>Worn, bent or loose blade.</li> <li>Bent blade mandrel.</li> <li>Loose/damaged part(s).</li> </ol>	Replace blade. Tighten blade bolt.     Replace blade mandrel.     Tighten loose part(s). Replace damaged parts.

### TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION				
Engine continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact an authorized service center/department.				
Poor 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>				
Mower blades will not rotate	<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>				
Poor 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>				
Headlight(s) not working (if so equipped)	<ol> <li>Switch is "OFF".</li> <li>Bulb(s) burned out.</li> <li>Faulty light switch.</li> <li>Loose or damaged wiring.</li> <li>Blown fuse.</li> </ol>	<ol> <li>Turn switch "ON".</li> <li>Replace bulb(s).</li> <li>Check/replace light switch.</li> <li>Check wiring and connections.</li> <li>Replace fuse.</li> </ol>				
Battery will not charge	<ol> <li>Bad battery cell(s).</li> <li>Poor cable connections.</li> <li>Faulty regulator (if so equipped).</li> <li>Faulty alternator.</li> </ol>	<ol> <li>Replace battery.</li> <li>Check/clean all connections.</li> <li>Replace regulator.</li> <li>Replace alternator.</li> </ol>				
Engine "backfires" when 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.				

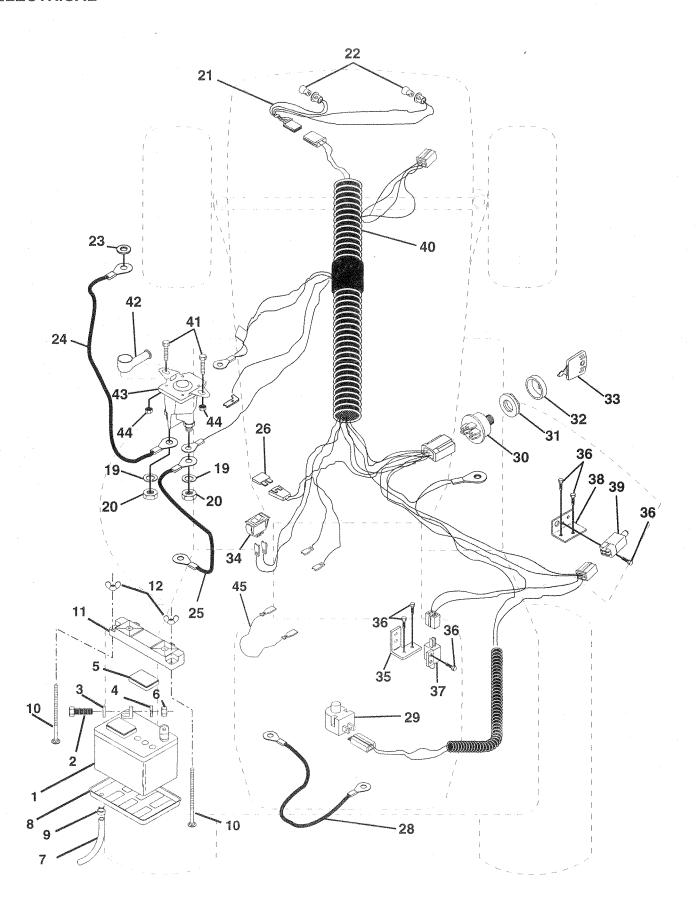
### 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

### SCHEMATIC



15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

### ELECTRICAL

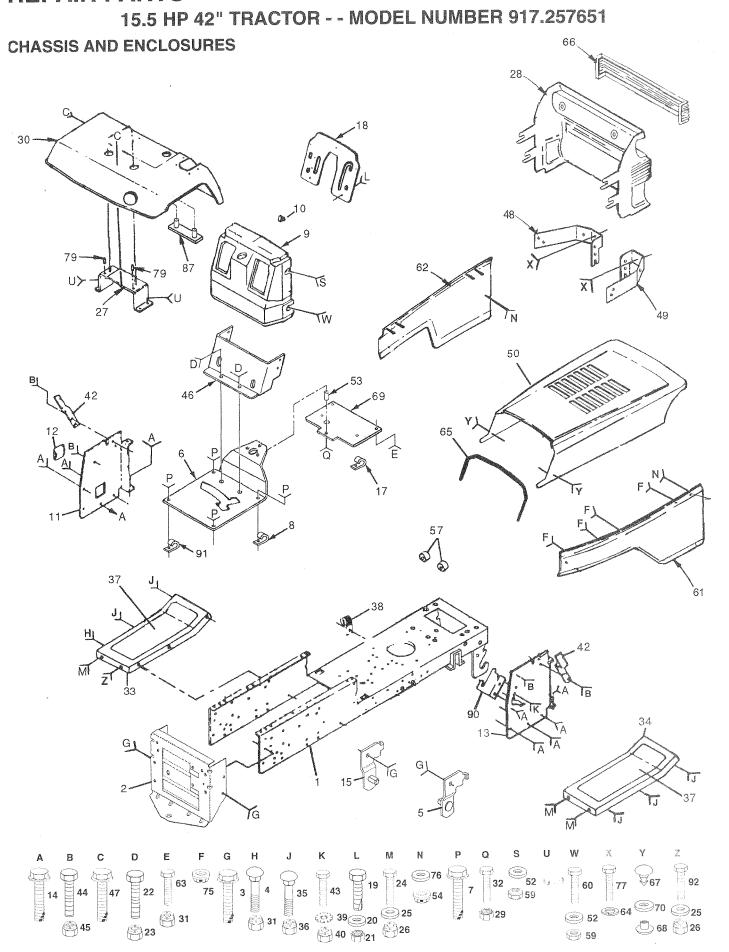


### 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

### ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
24 25 26 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	73350400 136850 4152J 11150400 4206J 4206J 108824X 4207J 121305X 140399 140400 141226 140403 110712X 108236X STD601005 104445X 140336 109553X 140416 71110408	Battery Bolt, Hex 1/4-20 UNC x 3/4 Washer Washer Cap, Battery Nut Tube, Plastic Tray, Battery Clamp, Hose Bolt Guard, Terminal Nut, Plastic, Wing 1/4-20 Washer, Lock Nut, Hex, Jam 1/4-20 UNC Harness, Light Socket Bulb, Light Washer Lock Int. Tooth 1/4 Cable, Battery Cable Battery Fuse Cable, Ground Switch, Plunger Switch, Ignition Nut, Ignition Cover, Ignition Switch Key, Ignition Switch, Light Bracket, Switch Screw Switch, Interlock Bracket, Switch Switch, Interlock Harness, Ignition Bolt Blk Fin Hex 1/4-20 UNC x 1/2 Cover, Terminal Solenoid Nut, Keps Blk Hex 1/4-20 UNC Adapter Ammeter Rectangular

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



### 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

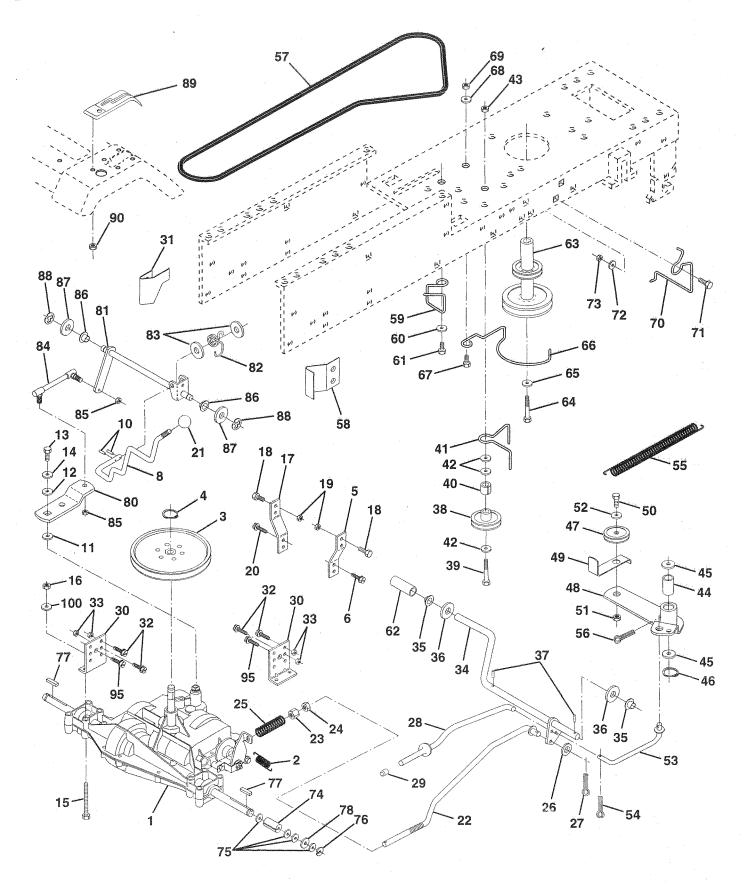
### **CHASSIS AND ENCLOSURES**

			1.7 F= 1.7	DART	
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	140341	Chassis	40	STD541437	Nut
2	140356	Drawbar	42	139915	Bracket, Support, Dash
3	17490612	Screw, Thd., Roll.	43	STD523710	Bolt
		3/8-16 x 3/4 Type T1	44	STD523710	Bolt
4	72140608	Bolt, Carriage 3/8-16 x 1	45	STD541437 105518X	Nut Dash, Lower
5	139887	Bracket Assembly, Pivot, RH	46 47	17490608	Screw, Thd., Roll.
6	127543	Saddle Samuel The Dall	4/	17430000	3/8-16 x 1/2 Type TT
7	17490616	Screw, Thd., Roll. 3/8-16 x 1 Type TT	48	136814	Bracket Assembly,
0	2751R	Clip, Fuel Line	, 0		Front Pivot Hinge, LH
8 9	136696	Dash, Plastic	49	136813	Bracket Assembly,
10	5479J	Plug, Button			Front Pivot Hinge, RH
11	136967	Panel, Dash, LH	50	136673X459	Hood Assembly
12	121794X	Cover, Access	52	19131614	Washer 13/32 x 1 x 14 Gauge
13	136970	Panel, Dash, RH	53	121236X	Spacer, Split
14	17490612	Screw, Thd., Roll.	54 57	108067X 110436X	Nut, Pal Bushing, Snap, Split
	100000	3/8-16 x 3/4 Type TT	57 59	STD541437	Nut
15	139886	Bracket Assembly, Pivot, LH Clip, Fuel Line	60	STD523710	Bolt
17 18	2751R 140943X012	Plate, Dash	61	136670X459	Panel Assembly, RH
19	74180412	Screw, Machine 1/4-20 x 3/4	62	136671X459	Panel Assembly, LH
20	STD551025	Washer 17/64	63	STD523710	Bolt
21	STD541425	Nut	64	10040400	Washer, Lock
22	74180512	Screw, Machine, Truss Head	65	137304	Rod, Support Hood
		5/16-18 UNC x 3/4	66	136374	Lens, Bar, Clear
23	STD541431	Nut, Keps 5/16-18 Unc	67	137270 137271	Rivet, Rachet, Male Rivet, Ratchet, Female
24	STD523710	Bolt 40/80 x 40/40 x 40 Cours	68 69	140181	Plate, Support, Battery
25	19131312	Washer 13/32 x 13/16 x 12 Gauge	70	137269	Washer, Nylon
26	STD541437	Nut Bracket Assembly, Fender	75	108067X	Nut, Pal
27 28	137113 136373X428	Grill	76	19092016	Washer 9/32 x 1-1/4 x 16 Ga.
29	STD541431	Nut, Lock Hex w/lns 5/16 - 18	77	74760408	Bolt Hex 1/4-20 x 1/2
30	140002X459	Fender	79	105531X	Nut, Push, Nylon
31	STD541437	Nut, Nylock	80	17490612	Screw, Thd. Roll.
32	STD523120	Bolt, Hex 5/16-18 x 2			3/8-16 x 3/4 Type TT
33	105465X459	Footrest, LH	87	140675	Fender Strap Locknut 3/8-16 UNC
34	105464X459	Footrest, RH	88	73800600	Bracket, Mower Clutch
35	STD533707	Bolt	\0 9 1	110923X 126471X	Clip, Insulator
36	STD541437	Nut Seed Seed Seed Seed Seed Seed Seed See	92	74760614	Bolt, Fin Hex 3/8-1,6 Unc x 1
37	105466X	Pad, Footrest	34	1062124	Red-Reflector
38 39	2751R STD551237	Clip, Fuel Line Washer	ந வ அமை		
39	310001201	V V CLOT ICI	NO	IE: All compor	nent dimensions given in U.S. inches

1 inch = 25.4 mm

### 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

### DRIVE



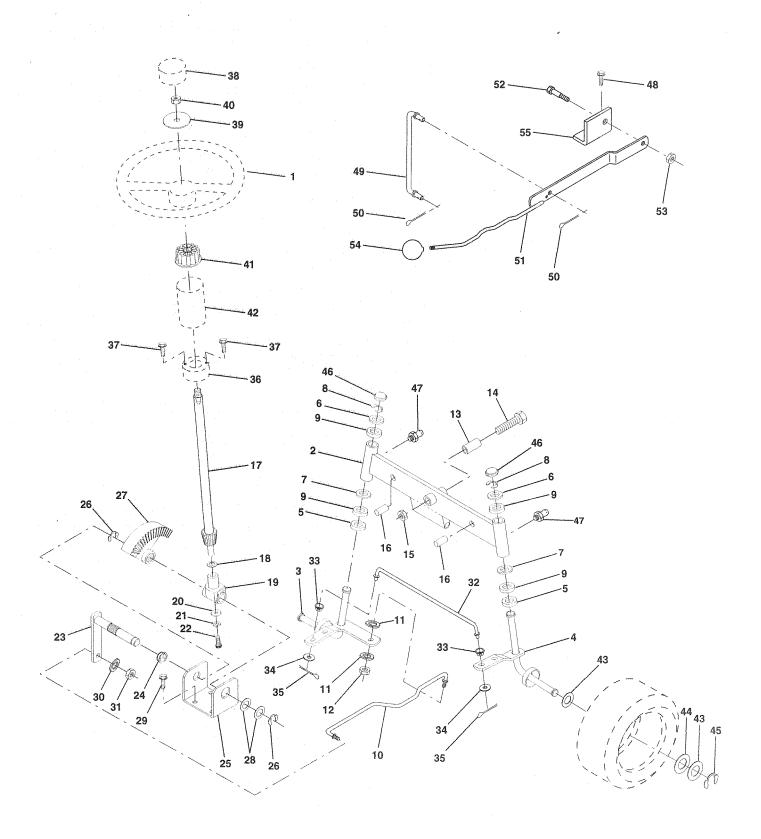
### 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

### DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6	142609 110422X 123666X 12000028 121520X 17490512	Transaxle, Dana, 6 Speed 4360-83 Spring, Return, Brake Pulley, Transaxle Ring, Retainer Strap, Torque Screw, Thd., Roll. 5/16-18 x 3/4 Type T	50 51 52	127783 123789X 123205X STD523715 STD541437 STD551037 105710X	Pulley, Idler, V-Groove Bellcrank Assembly Retainer, Belt Bolt Nut Washer Link, Clutch
8 10 11 12 13	141002 STD561210 105701X 19151216 71040412	Rod, Shifter, Fender Pin Washer, Plate, Shifter Washer 15/32 x 3/4 x 16 Gauge Bolt, Hex, Fin. 1/4-28 UNF x 3/4 Grade 8	54 55 56 57 58 59	STD561210 105709X STD561210 130801 127274X 140312	Pin Spring, Return, Clutch Pin V-Belt, Ground Drive Keeper, Belt, RH Keeper, Chassis, Center Span Belt
14 15	STD551125 74780544	Washer, Lock, Heavy Helical Spring Bolt, Hex, Fin. 5/16-18 UNC x 2-1/2	60 <b>61</b>	19131312 17490612	Washer 13/32 x 13/16 x 12 Gauge Screw, Thd., Roll. 3/8-16 x 3/4 Type TT
16 17 18 19 20	STD541431 121520X STD523710 STD541437 17490512	Nut Strap, Torque Bolt Nut Screw, Thd., Roll.		8883R 140186 M747810100 STD551143 129921 STD523710	Cover, Pedal, Round Pulley, Engine Bolt, Hex M10-1.5 x 100 Washer Keeper, Belt, Engine, LH
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	106933X 130804 STD541437 STD541237 106888X STD551037 STD561210 133261 124236X 130807 127275X STD523107 STD541431 122424X 120183X STD551062 STD571810 123674X STD523727 4470J 109070X 19131312 STD541437	5/16-18 x 3/4 Type T Knob, Round Rod, Brake Locknut Nut Spring, Rod, Brake Washer Pin Rod, Parking Brake Cap, Parking Brake, Red Bracket, Transaxle Mounting Keeper, Belt, LH Bolt Nut Shaft Assembly, Foot Pedal Bearing, Nylon Washer Pin, Roll Pulley, Idler, Flat Bolt Spacer, Split Keeper, Belt Retainer Washer 13/32 x 13/16 x 12 Gauge Nut	69 70 71 72 73 74 75 76 77 78 80 81	123583X 121748X 131487 136933 123782X	Bolt Washer 13/32 x 13/16 x 12 Gauge Nut Guide, Mower Drive Belt, RH Bolt Washer 13/32 x 1-1/4 x 12 Gauge Nut Spacer, Split Washer 25/32 x 1-1/4 x 16 Gauge E-Ring Key, Square 2.0 x .1845/.1865 Washer 25/32 x 1-5/8 x 16 Gauge Arm, Shift, Transaxle Shaft Assembly, Shifter Spring, Torsion, Transaxle Washer 17/32 x 3/4 x 16 Gauge Tie Rod Nut, Nylock 1/4-28 Bushing, Pivot Washer E-Ring Console, Shifter, 6 Speed Nut Self-Thd Wsh. Hd. 1/4 Screw, Thd., Roll.
43 44 45 46	105706X 110812X 12000039	Bearing, Nylon Washer, Hardened Ring, Klip	100	19111216	3/8-16 x 3/4 Type TT Washer 11/32 x 3/4 x 16 Ga.  ment dimensions given in U.S. inches

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

# 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651 STEERING ASSEMBLY



### 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

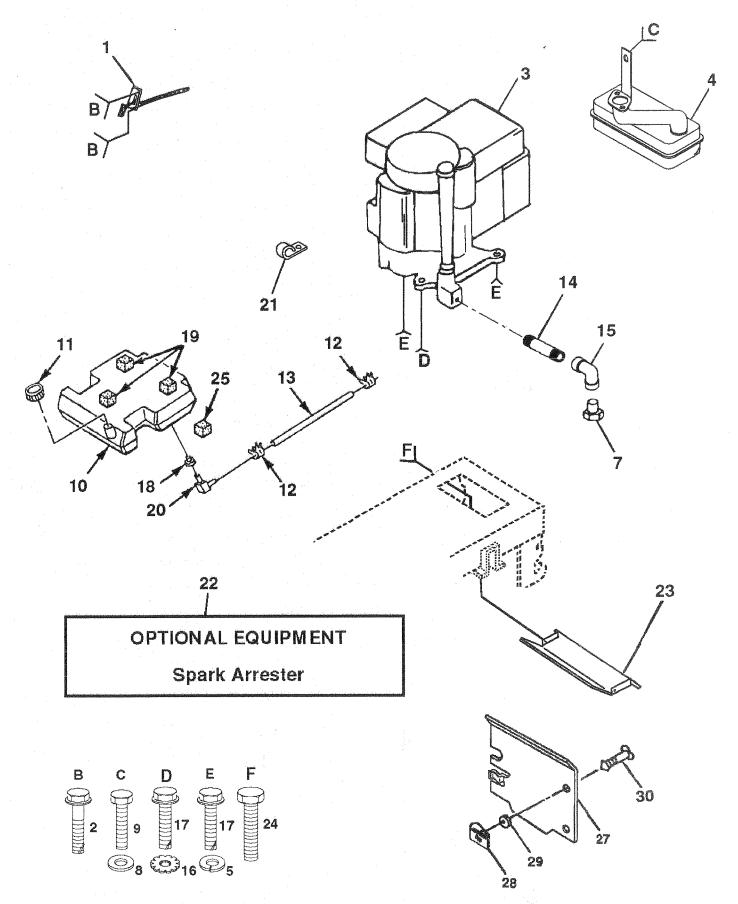
### STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
12345678901123145 10112345678901123145 10112345678901123145	121472X 142033 135227 135228 6266H 121748X 19272016 12000029 3366R 130468 STD551137 73610600 110438X 74011056 73901000 132624 128755 57079 124035X 126684X STD551125 71070410 127501 109816X 124036X 12000029 136874	Steering Wheel Axle Assembly, Front Spindle Assembly, LH Spindle Assembly, RH Bearing, Race, Thrust, Hardened Washer 25/32 x 1-5/8 x 16 Gauge Washer 27/32 x 1-1/4 x 16 Gauge Ring, Klip Bearing Link, Drag Washer, Lock Nut, Hex, Fin. 3/8-24 UNF Spacer, Bearing, Front Axle Bolt, Hex 5/8-11 UNC x 3-1/2 Locknut, Hex, Jam, w/Washer Insert 5/8-11 UNC Pin, Axle, Large 5/8 x 1.55/1.54 Shaft Assembly, Steering Washer, Thrust .515 x .750 x .033 Support, Shaft Washer, Shim 1/4 x 5/8 x .062 Washer Screw, Hex Socket Head 1/4-20 x 5/8 Shaft Assembly, Pittman Nyliner, Snap-In Bracket, Steering Ring, Klip Gear, Sector	29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 55 56 57 57 57 57 57 57 57 57 57 57 57 57 57	17490612 STD551137 73610600 130465 126847X 19131416 STD561210 1554J STD611005 126805X 100712K STD541350 100711L 110709X 121749X 121749X 121748X 12000029 121232X 6855M 17490612 131291 STD561210 125916X 106451X STD541437 106933X 138171	Screw, Thd., Roll. 3/8-16 x 3/4 Type TT Washer, Lock Nut, Hex, Fin. 3/8-24 UNF Tie Rod Bushing, Link, Drag Washer 13/32 x 7/8 x 16 Gauge Pin Bushing, Steering Screw #10 - 16 x 1/2 Insert, Cap, Steering Wheel Washer .53 x 2.25 x .160 Nut Adapter, Steering Wheel Column, Steering Washer 25/32 x 1-1/4 x 16 Gauge Washer 25/32 x 1-5/8 x 16 Gauge Ring, Klip Cap, Spindle Fitting, Grease131672 Screw, Thd. Roll. 3/8-16 x 3/4 Link, Clutch, with Nibs Pin Lever Assembly, Mower Clutch Bolt, Shoulder 3/8-16 UNC Grade 2 Nut Knob, Round Bracket, Pivot, Manual Clutch Lever
28	6266H	Bearing, Race, Thrust, Hardened			

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

### 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

### **ENGINE**



## 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

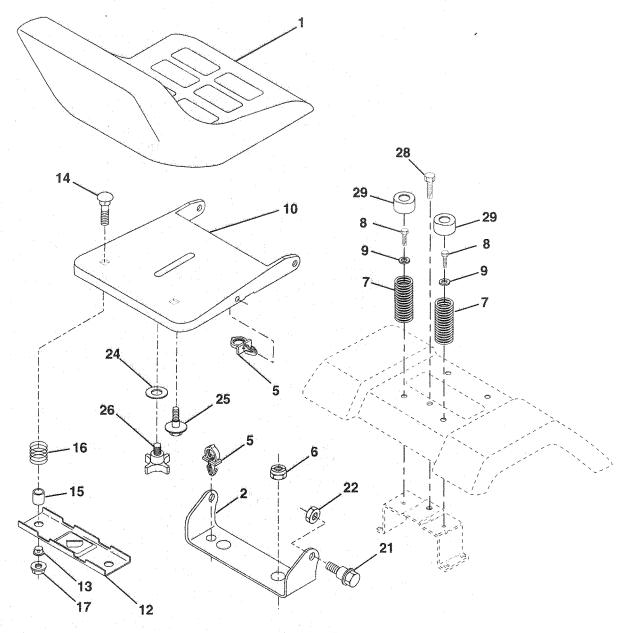
#### ENGINE

1 134265 2 17720410 3 140846 4 137350 5 STD551131	Control, Throttle Screw, Hex Head, Thread Cutting 1/4-20 x 5/8 Engine, Kohler Model No. CV15S PS41508 Muffler, Exhaust Washer Lock Hvy. Hlcl. Spr. 5/16 Plug, Oil Drain (Order From Engine Manufacturer)
4 137350	Engine, Kohler Model No. CV15S PS41508 Muffler, Exhaust Washer Lock Hvy. Hlcl. Spr. 5/16 Plug, Oil Drain
	Muffler, Exhaust Washer Lock Hvy. Hlcl. Spr. 5/16 Plug. Oil Drain
7	
8 STD551031 9 STD523105 10 141069 11 123549X 12 123487X 13 8543R 14 13280328 15 13200300 16 STD551231 17 M740108025 18 3645J 19 106082X 20 139277 21 2751R 22 137180 23 128953 24 STD601005 25 109227X 27 133747 28 105839X 29 105838X	Washer 5/16 x 3/4 x 16 Ga. Bolt Tank, Fuel Cap Assembly, Fuel Clamp, Hose Line, Fuel Nipple, Pipe Elbow, Standard 90°, 3/8-18 NPT Washer Hex Bolt Bushing Spacer, Pad Stem, Fuel Tank Clip, Fuel Line Arrester, Spark Shield, Heat Screw Spacer Pad Shield Heat Mech Receptacle 1/4 Turn Retainer 1/4 Turn

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

## 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

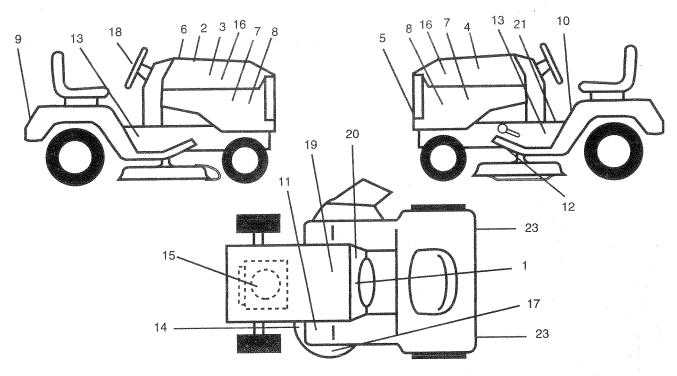
#### **SEAT ASSEMBLY**



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 5 6 7 8 9 10 12 13	127438X 140551 140407 STD541437 124181X 17490508 19131614 140552 121246X 121248X	Seat Bracket, Pivot, Seat Clip Push-In Nut Spring, Seat Screw Thdrol. 5/16-18 x 1/2 Washer 13/32 x 1 x 14 Gauge Pan, Seat Bracket, Switch Mounting Bushing, Snap, Nylon	14 15 16 17 21 22 24 25 26 28 29	72050411 134300 121250X 123976X 139888 STD541431 19171912 127018X 120068X 17490608 124238X	Bolt, Carriage 1/4-20 x 1-3/8 Spacer, Split Spring Nut, Flangelock 1/4 Grade 5 Bolt, Shoulder 5/16-18 UNC Nut Washer 17/32 x 1-3/16 x 12 Gauge Bolt, Shoulder 5/16-18 x .62 Knob, Seat Screw Thdrol. 3/8-16 x 1/2 Cap, Spring, Seat

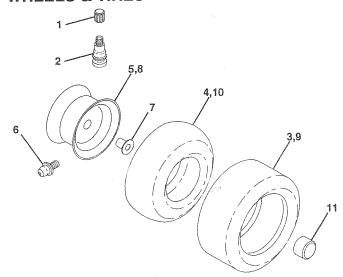
## 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

#### **DECALS**



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 13	138955 133178 138042 138043 138592 133644 138048 142241 128314 137537 4900J 109199X 131473	Decal, Operating Instruction Decal, Mower, 3 In One Decal, Hood, Craftsman, RH Decal, Hood, Craftsman, LH Decal, Grille Decal, Maintenance Decal, Side Panel Decal, Side Panel Decal, Fender, Craftsman Decal, Caution Decal, Clutch/Brake Decal, V-Belt Drive Schematic Decal, Chassis, 6 Speed/42"	14 15 16 17 18 19 20 21 23	136830 143949 143935 133179 132266 138047 138835 140837 106202X 138311 144077 144078	Decal, V-Belt Schematic Decal, Hp, Engine Decal Ins. Hood 15.5 Hp OHV Decal, Mower QC System Decal, Insert Strg Decal, Battery Decal Dash Lawn Tractor Decal Brake Parking Saddle Reflector, Taillight Decal, Handle Lift Height Adj. Manual, Owner's (Eng)

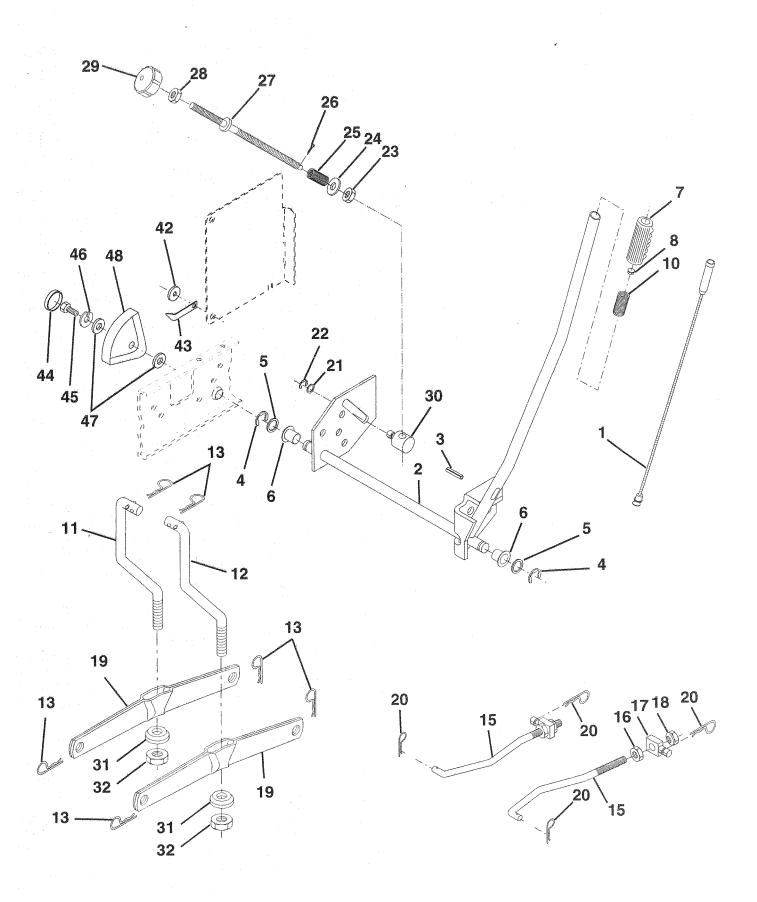
#### WHEELS & TIRES



KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap, Valve, Tire
2	65139	Stem, Valve
3	106222X	Tire, Front
4	59904	Tube, Front (Service Item Only)
5	106732X427	Rim Assembly, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	106108X427	Rim Assembly, Rear
9	122082X	Tire, Rear
10	7152J	Tube, Rear (Service Item Only)
11	104757X	Cap, Axle

15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

**42" MOWER LIFT** 



## 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

#### **42" MOWER LIFT**

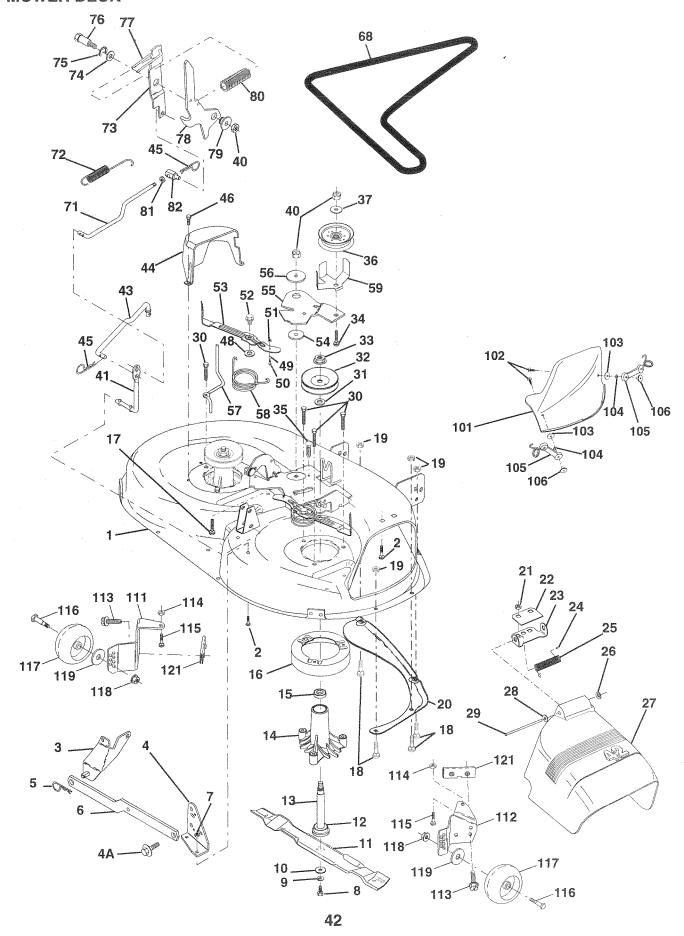
KEY NO.	PART NO.	DESCRIPTION
12 13 15 16 17 18 19 21 22 22 24 25 26 27 28 29 30 31 32 44 44 45 46	127218 73350800 130171 73800800 139868 3146R 19151216 12000037 110807X 19131016 2876H 76020308 110729X 73350600 138057 110810X 140302 73810600 120529X 123933X505 123935X 74780516	Wire Asm., Inner w/plunger Shaft Asm Lift Pin Groove E Ring #5133-62 Washer 21/32 X 1 X 21 Ga Bearing Nylon Grip Handle Fluted Button, Plunger Spring Cprsn Link Lift Lh Link Lift Rh 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 Spring Retainer Washer 15/32 X 3/4 X 16 Ga Ring Klip #T5304-37 Nut Special Washer 13/32 X 5/8 X 16 Ga Spring 2-1/8" Pin Cotter 3/32 x 1/2 Rod Adjust Lift Nut Hex Jam 3/8-16 Unc Knob Infinite 3/8-16 Unc Black Trunnion Dp Stop Dbl Thds Plt Bearing Pvt. Lift Spherical Nut Lock 3/8-24 W/Nylon Insert Washer, Nylon .44 x .75 x .032 Pointer, Height Indicator Plug, Hole Bolt, Hex, Fin. 5/16-18 UNC x 1 Washer, Lock Washer 11/32 x 1-1/2 x 10 Gauge Scale, Height Indicator

NOTE: All component dimensions given in U.S. inches

1 inch = 25.4 mm

### 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

#### **42" MOWER DECK**



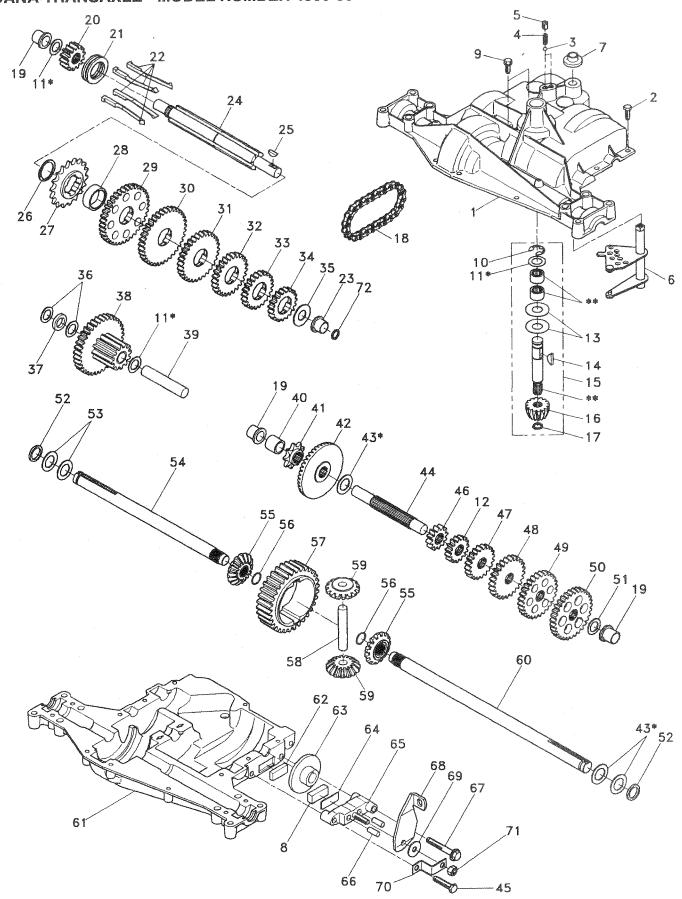
## 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

### 42" MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1234A56789011123 145678900112322224567890 12334567011123 145678900 123445646	140081 STD533107 138017 138440 132827 STD624008 130832 73800500 850857 STD551137 140296 134149 129895 137645 128774 110485X 136929 72110610 72140505 73800500 136888 STD541431 134753 131267 105304X 123713X 110452X 130968 19111016 131491 138776 129963 129861 137266 STD533717 133835 131494 STD551037 STD541437 133551 140083 140088 STD624003 137729	Mower Deck Assembly, 42" Bolt Bracket Asm Fr. Sway Bar Bracket Asm Deck 42" Sway Bar Bolt, Shoulder Retainer Spring Arm, Suspension, Rear Locknut 5/16-18 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 Bearing, Ball, Mandrel Stripper, Vented Mower Deck Bolt, Carriage 3/8-16 x 1-1/4 Bolt, Carriage 5/16-18 x 5/8 Locknut 5/16-18 Baffle, Vortex Nut Stiffener Bracket Bracket, Deflector Cap, Sleeve Spring, Torsion, Deflector Nut, Push Shield, Deflector Washer 11/32 x 5/8 x 16 Gauge Rod, Hinge Screw Thdrol. Hex Head Zinc Mower Washer, Spacer Pulley, Mandrel Nut, Toplock Flanged Bolt Fastner, Christmas Tree Pulley, Idler, Flat Washer 13/32 x 13/16 x 16 Gauge Nut Rod, Pivot, with Nibs Rod, Clutch, Secondary, with Nibs Guard, Mandrel, LH Retainer Screw Thd. Roll 1/4-20 x 5/8	59 68 71 72 73 74 75 76 77 78 79 80 81 82 101 102 103 104 105 111 112 113 114 115 116 117 118 119	133944 133940 131340 STD541410 139888 131845 133943 140084 122052X 140090 140086 141043 140067 142427 133435 127847 121748X 12000029 128903 127845 140333 127498 128759 73350600 142028 136420 71161010 19061216 STD551110 130758 2029J 140353 132262 17490512 73510500 72110504 137644 133957 73930600 19121414 143723 130794	Washer, Hardened Roller Assembly, Cam Follower Bolt, Shloulder #10-24 Grade 5 Locknut Bolt, Shoulder 5/16-18 UNC Arm Assembly, Pad, Brake Washer, Hardened Arm, Idler Spacer, Retainer Keeper Belt LH Front Spring Torsion Brakes 42" Guard Tuv Idler 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 Spring, Mower Clutch Nut Hex Jam 3/8-16 UNC Trunnion Adj. Mulcher Cover Screw Washer #10 Washer, Lock Latch Assembly, Bagger Nut, Weld Bracket, Gauge, Wheel LH Bracket, Gauge, Wheel RH Screw, Tapping 5/16 - 18 Nut, Keps 5/16 - 18 UNC Bolt, Carriage 5/16 UNC x 1/2 Bolt, Shoulder Wheel, Gauge, Donut Nut, Locking 3/8 - 16 Washer 3/8 x 7/8 x 14 Ga. Bracket, Extended Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 33)) Mower Deck, Complete (Std Deck- order mulching and gauge wheel components separately - key nos. 101 thru 106 and 111 thru 121)

## 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

**DANA TRANSAXLE - MODEL NUMBER 4360-83** 



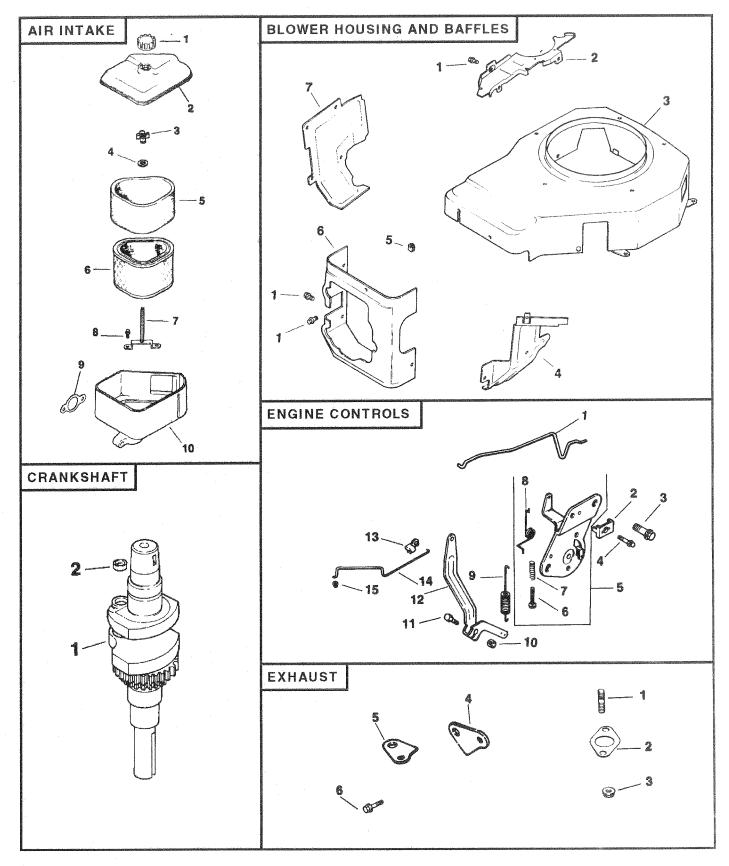
## 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

## **DANA TRANSAXLE - MODEL NUMBER 4360-83**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.		DESCRIPTION
disease	142671	Housing, Upper			
2	2274J	Screw, Self-Tapping, Large	41 42	105928X 106605X	Sprocket, 9 Teeth
	Island Hotel II 4 May	1/4-20 x .734	43	134394	Gear, Bevel, 42 Teeth * Assembly, Kit, Shim .750 Shaft
3	134400	Ball, Detent	44	120473X	Shaft, Drive
4	105904X	Spring, Detent	45	106596X	Screw, Self-Tapping, Large
5	105905X	Screw, Set			5/16-18 x 1.44
6	134788	Kit, Shifter Assembly	46	142678	Gear, Spur, 12 Teeth
7	134399	Boot, Shifter	47	120407X	Gear, Spur, 20 Teeth
8	120951X	Puck, Friction	48	106589X	Gear, Spur, 25 Teeth
9	134791	Screw, Tapping w/Sealer	49	120408X	Gear, Spur, 28 Teeth
10	142672	Ring, Retaining	50	105937X	Gear, Spur, 31 Teeth
11 12	134793 142679	* Assembly, Kit, Shim .625 Shaft	51	2226J	Washer, Plain .632 x 1.00 x .060
13	120415X	Gear, Spur, 15 Teeth	52	134401	Washer, Neoprene
14	142674	Washer, Plain .632 x 1.38 x .046 Key, Woodruff, #9		2264J	Washer, Plain .758 x 1.25 x .031
15	106846X	Assembly, Kit, Input Shaft		120474X 120409X	Axle, L.H.
16	106095X	Pinion, Bevel, 14 Teeth		105941X	Gear, Miter, 15 Teeth Ring, Retaining
17	105909X	Ring, Retaining		110071X	
18	105910X	Chain, 24 Pitches		120952X	Gear, Spur, 32 Teeth Shaft, Cross
19	105911X	Bearing, Flange	59	106592X	Gear, Miter, 15 Teeth
20	142675	Gear, Spur, 14 Teeth		120475X	Axle, R.H.
21	138246	Collar, Clutch	61	142680	Housing, Lower
22	138238	Assembly, Kit, Clutch Keys	62	120961X	Puck, Friction
23	143051	Bearing, Flange	00	7294J	Disc, Brake
24	143673	Shaft, Intermediate	64	108989X	Spacer
25	2244J	Key, Woodruff, #61	65	120953X	Jaw, Brake
26 27	105916X 120470X	Ring, Retaining	66	120954X	Pin, Dowel
28	110070X	Sprocket, 18 Teeth	67	134799	Screw, Self-Tapping, Large
29	142677	Spacer Gear, Spur, 37 Teeth	60	100044	5/16-18 x 2.25
	142681	Gear, Spur, 35 Teeth	68 69	138244 108996X	Lever, Actuating
31	120405X	Gear, Spur, 30 Teeth	70	120956X	Washer, Plain .321 x 1.00 x .055
32	108980X	Gear, Spur, 25 Teeth	71	73810500	Bracket, Anti-Rotation Locknut 5/16-24
	120406X	Gear, Spur, 22 Teeth	72	143045	Seal, Oil
	134796	Gear, Spur, 19 Teeth	73	120416X	Grease
35	105925X	Washer, Plain .640 x 1.37 x .061		12011071	Grease
	2232J	Washer, Plain .632 x 1.00 x .026	*	Use in combin	nations to maintain proper clearances
	108978X	Spacer .630 x 1.00 x .169			The state of the s
38	110079X	Assembly, Gear, Combination of	**	Order Key No	. 15
00	40.400037	12 Teeth and 35 Teeth		-	
	124639X	Shaft, Idler	NOT	E: All compon	ent dimensions given in U.S. inches
40	120472X	Spacer .635 x .875 x .755		1 inch = 25.	<del>-</del>

## 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651

**KOHLER ENGINE - MODEL NUMBER CV15S, TYPE NUMBER PS41508** 



## 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651 KOHLER ENGINE - MODEL NUMBER CV15S, TYPE NUMBER PS41508

#### **AIR INTAKE**

KEY NO.	PART NO.	DESCRIPTION
5 6 7 8	12 341 01 12 096 06 12 100 01 X-25-63 12 083 08 12 083 05 12 072 03 12 086 01 12 041 02 12 094 01	Knob, Air Cleaner Cover Cover, Air Cleaner Wing Nut Washer, Plain 1/4 Precleaner Element Element, Air Cleaner Stud, Mounting Plate Screw, Mounting Plate Stud Gasket, Air Cleaner Base, Air Cleaner
NOT	ILLUSTRATED 12 113 27	Decal, Air Cleaner

#### **CRANKSHAFT**

KEY NO.	PART NO.	DESCRIPTION
1 2	12 014 02 12 139 01	Crankshaft Plug, Cup

#### **BLOWER HOUSING AND BAFFLES**

KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7	M-0545010 12 146 07 12 027 14 12 063 05 12 313 03 12 063 08 12 063 01	Screw, Mounting M5 x 0.8 x 10 (12) Plate, Blower Housing Housing, Blower Baffle, Carburetor Grommet, Blower Housing Baffle, Cylinder Head Baffle, Cylinder
NOT	ILLUSTRATED 12 113 51	Decal, Horsepower

#### **ENGINE CONTROLS**

KEY NO.	PART NO.	DESCRIPTION
1	12 079 07	Linkage, Choke
2	12 237 01	Clamp, Cable
2 3 4 5	SM-0645016	Screw, Hex Head M6 x 1.0 x 16 (2)
4	SM-0545016	Screw, Cable Clamp M5 x .8 x 16
5	12 536 01	Control, Speed Assembly (Includes Key
		Numbers 6 through 8)
6	SM-0443025	Screw
7	12 089 11	Spring, Choke Adjust
6 7 8	12 089 04	Spring, Choke Return
9	12 089 19	Spring, Governor
	SM-0641060	Nut, Governor Arm M6 x 1.0
11	SM-0642025	Screw, Governor Arm
		M6 x 1.0 x 25
	12 090 05	Lever, Governor
		Bushing
	12 079 01	Linkage, Throttle
15	25 158 08	Bushing
13 14	25 158 11	Bushing

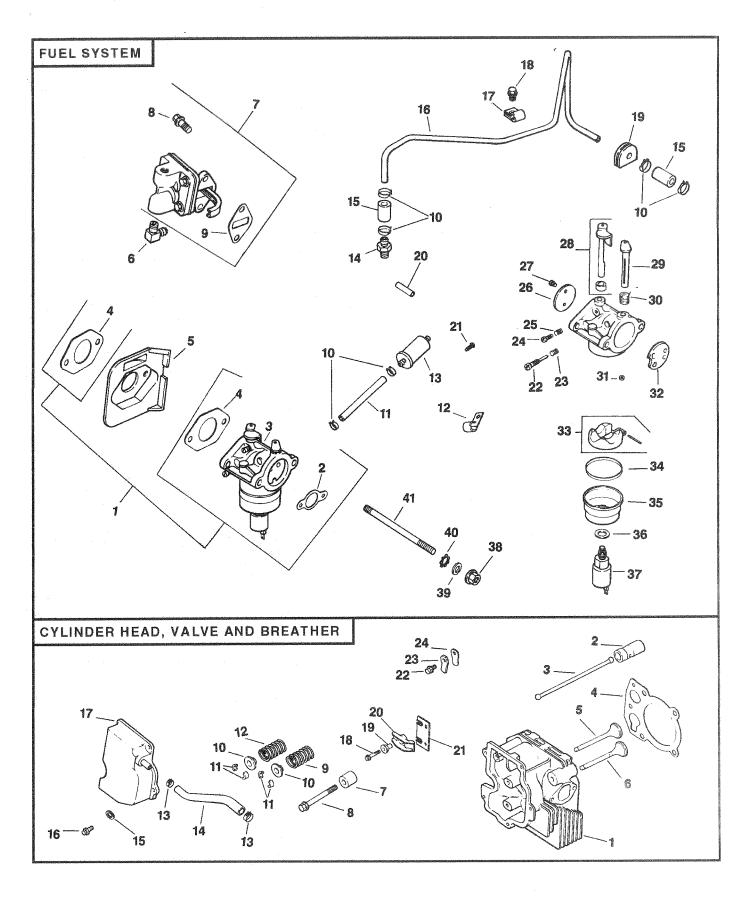
#### **EXHAUST**

KEY NO.	PART NO.	DESCRIPTION
1	M-0829033	Stud, Exhaust Manifold M8 x 1.25 x 20 (2)
2 3 4 5	12 041 03 SM-0841080 12 126 11 12 445 01	Gasket, Exhaust Manifold Nut, Muffler Mounting M8 x 1.25 (2) Bracket, Muffler Strap, Lifting
6	SM-0645025	Screw, Lifting Strap M6 x 1.0 x 25 (2)

#### **NOT ILLUSTRATED**

KEY NO.	PART NO.	DESCRIPTION
	12 755 01	Gasket Set
RPM Settings:		Low Speed: 1500-2000 High Speed: 3200-3400

## 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651 KOHLER ENGINE - MODEL NUMBER CV15S, TYPE NUMBER PS41508



## 15.5 HP 42" TRACTOR - - MODEL NUMBER 917.257651 **KOHLER ENGINE - MODEL NUMBER CV15S, TYPE NUMBER PS41508**

#### **FUEL SYSTEM**

#### CYLINDER HEAD, VALVE AND BREATHER

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	12 853 08	Kit, Carburetor (Includes	1	12 318 02	Head, Cylinder
0	10.041.00	Key Numbers 2 through 4)	2	12 351 01	Lifter, Valve (2)
2 3	12 041 02 12 053 09	Gasket, Air Cleaner Carburetor Assembly	3 4	12 411 01 12 041 10	Rod, Push (2)
•	12 000 00	(For Information Only - Not Available	5	12 017 01	Gasket, Cylinder Head Valve, Intake, Standard Size
		Separately)	•	12 017 02	Valve, Intake, .25" Oversize
		(Includes Key Numbers 22 thru 37)	6	12 016 01	Valve, Exhaust, Standard
4	12 041 01	Gasket, Carburetor (2)		12 016 02	Valve, Exhaust, .25" Oversize
5	12 265 01	Deflector, Heat	7	12 112 13	Spacer, Head Bolt Exhaust Port
6 7	25 155 02 12 559 01	Connector, Hose	8	12 086 15	Screw, Cylinder Head
,	12 333 01	Kit, Fuel Pump (Includes Key Numbers 8 and 9)	9	12 089 15	M10 x 1.5 x 80 (5) Spring, Exhaust Valve
8	SM-0645020	Screw, Fuel Pump M6 x 1.0 x 20 (2)	10	12 173 01	Cap, Valve Spring (2)
9	25 041 09	Gasket, Fuel Pump	11	12 755 03	Kit, Retainer (2)
10	X-426-9	Clamp, Hose (6)	12	12 089 01	Spring, Intake Valve
11	52 353 22	Fuel Line, Flexible	13	X-426-9	Clamp, Hose (2)
12	47 154 01	Clip, Cable	14	12 326 03	Hose, Breather
13 14	25 050 02	Filter, Fuel	15	12 468 05	Washer, Flat
15	X-380-1 12 353 01	Connector, Hose Line, Fuel, Rubber, 1-1/4" (2)	16	SM-0645020	Screw, Valve Cover
16	12 123 01	Line, Fuel, Metal	17	12 096 07	M6 x 1.0 x 20 (5) Cover, Valve with Nipple
17	12 154 01	Clamp, Fuel Line	18	M-0640034	Screw, Rocker Arm M6 x 1 x 34 (2)
18	M-0545010	Screw, Fuel Line Clamp	19	24 194 01	Ball, Rocker Pivot (2)
19	12 313 01	Grommet, Fuel Line	20	24 186 01	Arm, Rocker (2)
20	12 431 01	Sleeve, Insulating	21	12 146 13	Plate, Guide
21	12 086 07	Screw, Ground Wire	22	M-0545010	Screw, Breather Reed Retainer
22 23	12 368 01 12 089 09	Needle, Idle, Fuel Adjust	00	10.010.01	M5 x 0.8 x 10
24	12 086 04	Spring, Idle Fuel Screw, Idle Speed Adjust	23 24	12 018 01	Retainer, Breather Reed
25	12 089 09	Spring, Idle Speed	24	24 402 03	Reed, Breather
26	12 146 03	Plate, Throttle	NOT	E: All componer	nt dimensions given in U.S. inches
27	25 086 27	Screw, Throttle Plate (2)		1 inch = 25.4	mm
28	12 144 09	Shaft, Throttle with Lever and Seal			
29	12 144 08	Shaft, Choke			
30	12 089 10	Spring, Choke Return			
31 32	12 337 01 12 146 02	Jet, Main			
33	12 757 02	Plate, Choke Kit, Float			
34	12 041 05	Gasket, Bowl	RPM	Settings:	Low Speed 1500 - 2000
	12 104 01	Bowl, Fuel	1 (1 101	ocitings.	High Speed 3200 - 3400
36	12 041 06	Gasket, Bowl Retainer Screw			ingh opour octor office
37	12 757 09	Kit, Solenoid Assembly			
	SM-0641060	Nut, Carburetor M6 x 1.0 (2)			
	X-25-63	Washer, Plain 1/4			
	X-22-11	Washer, Internal Tooth 1/4			

**NOT ILLUSTRATED** 

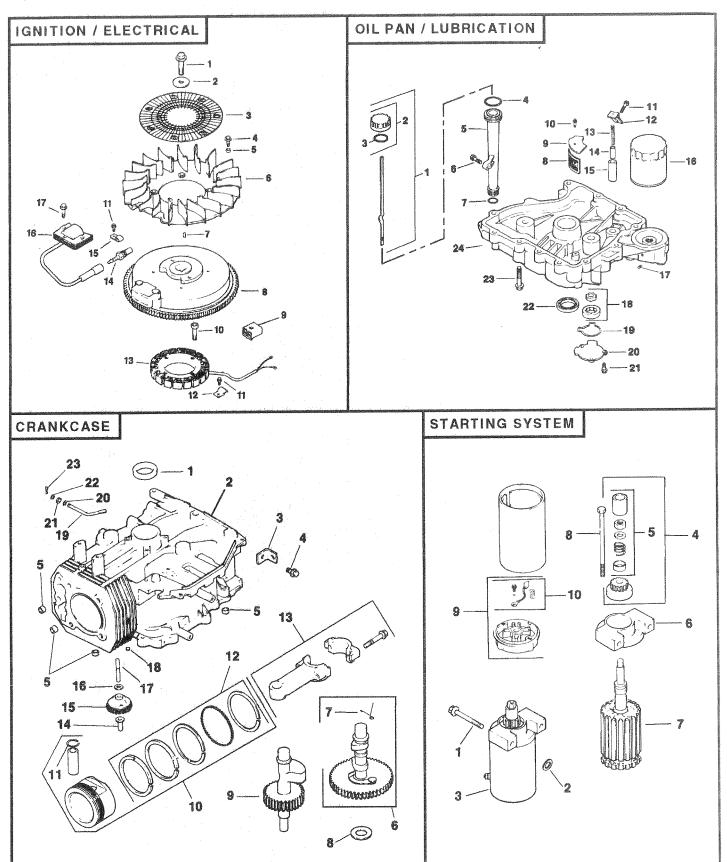
M-0629122

Kit, Carburetor Repair Kit, High Altitude Jet Lead, Solenoid, Black, 5", 14 Gauge, Uninsulated Push-On Tabs Lead, Ground, Green, 5", 18 Gauge Insulated Grip Barrel Eyelets -- 12 757 01 -- 12 755 09 12 518 05 41 518 34

Stud, Carburetor M6 x 1.0 x 110 (2)

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## **KOHLER ENGINE - MODEL NUMBER CV15S, TYPE NUMBER PS41508**

#### **IGNITION / ELECTRICAL**

#### CRANKCASE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	12 086 14	Screw, Flywheel M10 x 1.5 x 45.8	1	12 032 03	Seal, Crankshaft
2	12 468 03	Washer, Flywheel	2		Block, Cylinder (Use Short Block)
3	12 162 03	Screen, Grass	3	12 445 02	Strap, Lifting
4	M-0639016	Screw, Fan M6 x 1 x 13 (4)	4	M-0839025	Screw, Lifting Strap M8 x 1.25 x 22
5	12 112 01	Spacer, Fan (4)	5	12 380 03	Dowel, Locating (4)
6	12 157 02	Fan	6	12 010 02	Camshaft Assembly (Includes #7)
7	X-42-15	Key	7	12 089 18	Spring, Actuating
8	12 025 25	Flywheel Assembly (4 Contact)	8	12 422 08	Shim, Camshaft
9	41 155 02	Connector		12 422 09	Shim, Camshaft (as required)
10	M-0548025	Screw, Stator Mounting		12 422 10	Shim, Camshaft (as required)
4 4	NA OF 45040	M5 x 0.8 x 25 (4)		12 422 11	Shim, Camshaft (as required)
11	M-0545010	Screw, Stator Harness Clip		12 422 12	Shim, Camshaft (as required)
12	12 154 02	M5 x 0.8 x 10 (2)		12 422 13	Shim, Camshaft (as required)
13	12 085 03	Clip, Stator Harness	9	12 422 07	Shim, Camshaft (as required)
14	12 132 02	Stator Assembly Spark Plug	10	12 144 19 12 874 07	Shaft, Balance
15	X-728-1	Clip, Cable	10	12 874 07	Piston w/Ring Set, Standard
16	12 584 01	Module, Ignition		12 874 09	Piston w/Ring Set .25" Oversize
17	SM-0545020	Screw, Ignition Module	11	12 018 02	Piston w/Ring Set .50" Oversize
• •	OW 00-10020	M5 x 0.8 x 20 (2)	12	12 108 07	Retainer, Piston Pin (2)
		100 X 0.0 X 20 (2)	1 6-	12 108 08	Ring Set, Standard Ring Set .25" Oversize
NOT	ILLUSTRATED			12 108 09	Ring Set .50" Oversize
	12 518 01	Lead, White, Ground To Kill (19", 18	13	12 067 01	Connecting Rod, Standard
		Gauge, Fully Insulated Push-on Tab		12 067 02	Connecting Rod .25" Oversize
		and Uninsulated Push-on Tab	14	12 380 01	Pin, Governor Regulating
		Terminals)	15	12 043 05	Gear, Governor Assembly
	51 755 01	Kit, Diode	16	SM-0631005	Washer, Governor Gear Thrust
			17	12 144 02	Shaft, Governor Gear
OII	PAN / LUBF	RICATION	18	52 139 09	Plug, Cup
N Bau			19	12 144 01	Shaft, Governor Cross
VEV	DADT		20	SM-0631015	Washer, Governor Shaft
KEY	PART	DECODIDATION	21	12 032 01	Seal, Governor Cross Shaft
NO.	NO.	DESCRIPTION		X-25-102	Washer, Plain 1/4
4	10.000.01	Disable Assessed	23	12 380 04	Pin, Governor Hitch
1	12 038 01	Dipstick Assembly			

KEY NO.		DESCRIPTION
1	12 038 01	Dipstick Assembly
8 9	25 755 13 12 153 03 12 153 02 12 153 02 12 123 04 SM-0545020 12 153 01 12 162 02 12 096 03 SM-0545016 M-1051025	(Includes Key Numbers 2 and 3) Kit, Oil Fill Cap (Includes Key #3) O-Ring, Dipstick O-Ring, Upper Oil Fill Tube Tube, Oil Fill Screw, Oil Fill Tube M5 x 0.8 x 20 O-Ring, Lower Oil Fill Tube Screen, Oil Pick-up Cover, Oil Pick-up Screen Screw, Screen Cover Screw, Oil Pump Relief Valve Bracket
16 17 18 19		M10 x 1.5 x 25 Bracket, Oil Pump Relief Valve Spring, Oil Pump Relief Valve Piston, Oil Pump Relief Valve Body, Oil Pump Relief Valve Filter, Oil Plug, Square Head, Solid 3/8 NPTF Oil Pump Assembly O-Ring, Oil Pump Cover Cover, Oil Pump Screw, Oil Pump Cover
22 23 24	12 032 03 SM-0839045 12 199 30	M5 x 0.8 x 16 (3) Seal, Oil (P.T.O. End) Screw, Oil Pan M8 x 1.25 x 45 (12) Pan, Oil

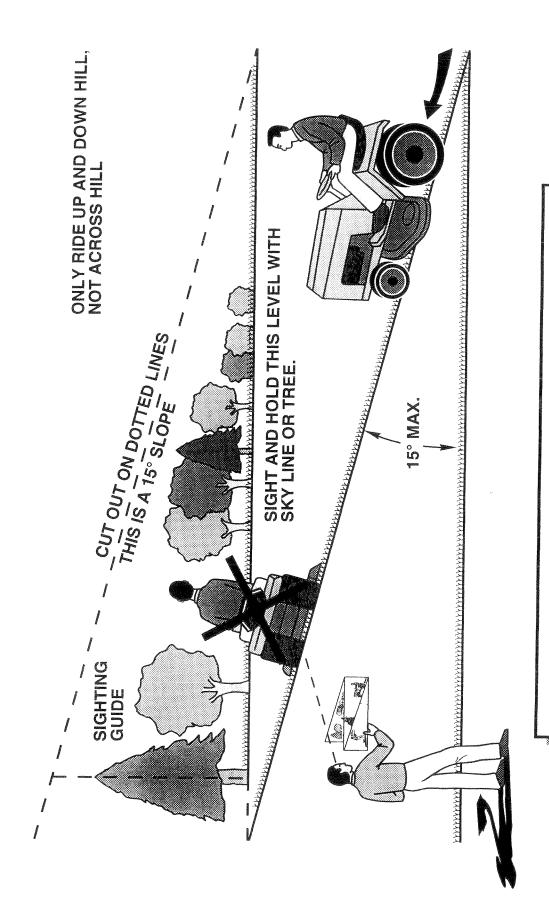
#### **STARTING SYSTEM**

KEY NO.		DESCRIPTION	
1	M-0839070	Screw, Bendix Starter M8 x 1/25 x 70 (2)	
6	12 468 01 12 098 05 12 755 12 12 755 06 12 227 01 12 170 02 12 086 02 12 243 01 82 755 28	Washer (2) Starter Bendix (Includes #4-10) Kit, Drive (Includes Key Number 5) Kit, Drive Parts Cap, Drive End Armature Screw, Hex Flange Cap, Commutator End (Includes Key Number 10) Kit, Brush and Spring	
NOT	ILLUSTRATED 52 357 01	Lubricant, Starter	
NOTE: All component dimensions given in U.S. inches			

## **SERVICE NOTES**

## SERVICE NOTES

## SERVICE NOTES



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. 917.257651

#### 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)

## CRAFTSMAN

15.5 HP
ELECTRIC START
3 in One Convertible
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 917.257651
- ENGINE MODEL NO. CV15S, TYPE NO. PS41508
- PART NUMBER
- PART DESCRIPTION

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