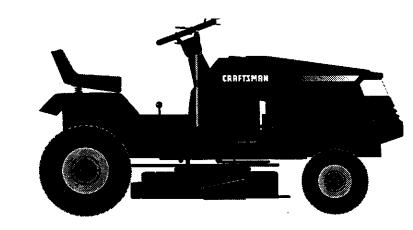
Owner's Manual

CRAFTSMAN®

13.5 HP
ELECTRIC START
38" MOWER
5 SPEED TRANSAXLE
LAWN TRACTOR

Model No. 917.270430

- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts





This product has a low emission engine which operates differently from previously built engines. Before you start the engine, read and understand this Owner's Manual.

CAUTION:

Read and follow all Safety Rules and Instructions before operating this equipment. For answers to your questions about this product, Call:

1-800-659-5917

Sears Craftsman Help Line 5 am - 5 pm, Mon - Sat

Sears, Roebuck and Co., Hoffman Estates, II 60179 Visit our Craftsman website:www.sears.com/craftsman

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WARRANTY

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

This Warranty does not cover:

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

LIMITEĎ 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. In-home warranty service on your Craftsman riding equipment is available at no charge for 30 days from the date of purchase. Please contact your nearest service center. After 30 days from the date of purchase, warranty service is available by taking your Craftsman riding equipment to your nearest Sears Service Center. (In-home warranty service will still be available after 30 days from the date of purchase but a standard trip charge will apply). This warranty applies only while this product is in the United States. This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

Sears, Roebuck and Co., D/817 WA, Hoffman Estates, IL 60179

SAFETY RULES

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.

2

SAFETY RULES

- · 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.

SLOPE OPERATION

Slopes are a major factor related to lossof-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.

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.

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,
- 3 before restarting.

SAFETY RULES

- 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.
- 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.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- 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.
- Mow up and down slopes (15° Max), not across.

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

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

- 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.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

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

PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	UNLEADED
OILTYPE (API-SF/SG/SH):	SAE 30(ABOVE 32°F)
OIL CAPACITY:	<u>'</u>
SPARK PLUG: (GAP: .030")	
VALVE	INTAKE: .005"007"
CLEARANCE:	EXHAUST:.009"011"
GROUND SPEEL	FORWARD:
(MPH):	1ST 1.0
	2ND 2.2
	3RD 3.2
	4TH 4.4
:	5TH 5.0 REVERSE: 1.4
TIRE PRESSURE:	FRONT: 14 PSI REAR: 12 PSI
	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BATTERY:	AMP/HR: 25 MIN. CCA: 190 CASE SIZE:U1R
BLADE BOLT TORQUE:	27-35 FT. LBS

CONGRATULATIONS on your purchase of a Craftsman 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. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

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

MAINTENANCE AGREEMENT

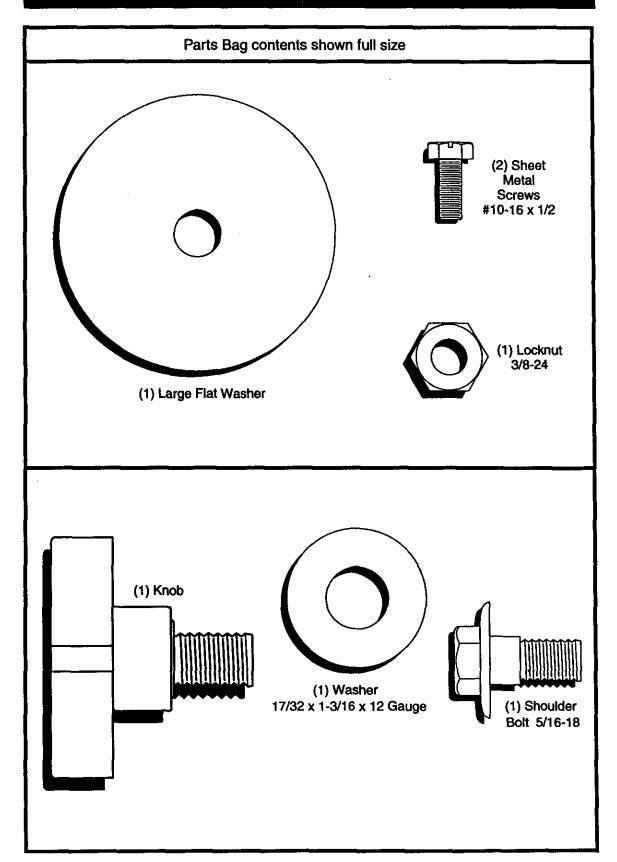
A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

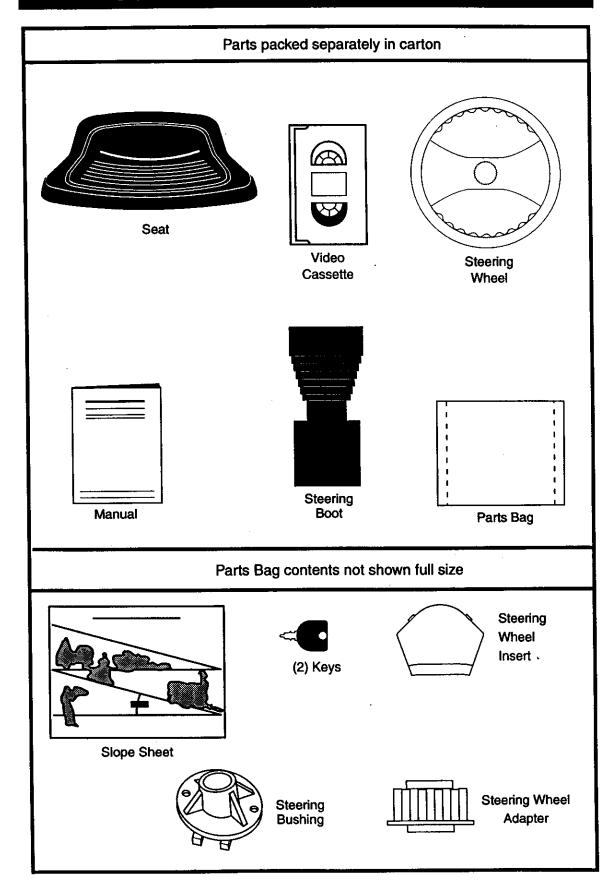
- · Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.

A WARNING: This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brushcovered 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).

CONTENTS OF HARDWARE PACK



CONTENTS OF HARDWARE PACK



ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 5/16" wrench
- (1) Pliers
- (2) 1/2" wrench
- (1) Utility knife
- (1) Tire pressure gauge

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

TO REMOVE TRACTOR FROM CARTON

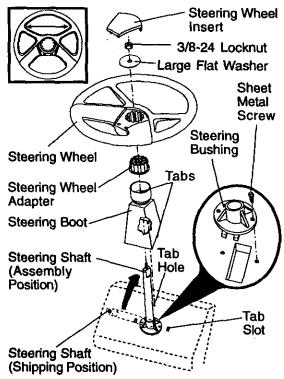
UNPACK CARTON

- Remove all accessible loose parts and parts boxes from shipping carton.
- Cut, from top to bottom, along lines on all four corners of shipping carton, and lay panels flat.
- Remove mower and packing materials.
- Check for any additional loose parts or boxes and remove.

BEFORE ROLLING TRACTOR OFF SKID

ATTACH STEERING WHEEL

- Slide the steering bushing over the steering shaft.
- Raise steering shaft forward until screw holes in dash line up with steering bushing. Install two (2) sheet metal screws and tighten securely.
- Position steering boot over steering shaft.
- Place tabs of steering boot over tab slots in dash and push down to secure.
- Slide steering wheel adapter onto upper steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto adapter.

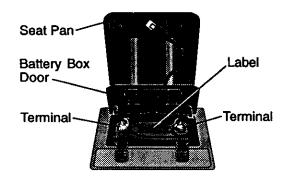


- Assemble large flat washer and 3/8-24 locknut and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

iMPORTANT:Check for and remove any staples in skid that may puncture tires where tractor is to roll off skid.

HOW TO SET UP YOUR TRACTOR CHECK BATTERY

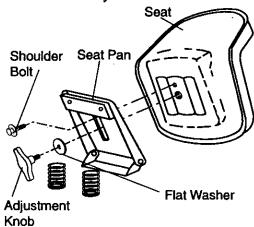
- Lift seat pan to raised position and open battery box door.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in Maintenance section of this manual for charging instructions).



INSTALL SEAT

Adjust seat before tightening adjustment knob.

- Remove cardboard packing on seat pan.
- Place seat on seat pan and assemble shoulder bolt. Tighten shoulder bolt securely.
- Assemble adjustment knob and flat washer loosely. Do not tighten.
- 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.



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

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place freewheel control in freewheeling position to disengage transmission (See "TO TRANSPORT" in the Operation section of this manual).

- Roll tractor forward off skid.
- Remove banding holding discharge guard up against tractor.

TO DRIVE TRACTOR OFF SKID

WARNING: Before starting, read, understand and follow all instructions in the Operation section of this manual. Be sure tractor is in a well-ventilated area. Be sure the area in front of tractor is clear of other people and objects.

- Be sure all the above assembly steps have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- Place gear shift lever in neutral (N) position.
- Press lift lever plunger and raise attachment lift lever to its highest position.
- Start the engine. After engine has started, move throttle control to idle position.
- Depress clutch/brake pedal into full "BRAKE" position and hold. Move gearshift lever to 1st gear.
- Slowly release clutch/brake pedal and slowly drive tractor off skid.
- Apply brake to stop tractor, set parking brake and place gearshift lever in neutral position.
- Turn ignition key to "OFF" position.
 Continue with the instructions that follow.

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.

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" section 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.

✓ 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:

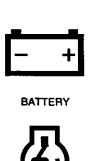
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated 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.

OPERATION

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













CAUTION OR WARNING





FORWARD



FAST

SLOW

ENGINE ON



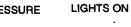












OVER TEMP LIGHT



FUEL



MOWER HEIGHT CHOKE

PARKING BRAKE LOCKED

UNLOCKED

MOWER LIFT



ATTACHMENT









CLUTCH ENGAGED

REVERSE

NEUTRAL

HIGH

LOW

PARKING BRAKE





ATTACHMENT **CLUTCH DISENGAGED**











KEEP AREA CLEAR

SLOPE HAZARDS (SEE SAFETY RULES SECTION)









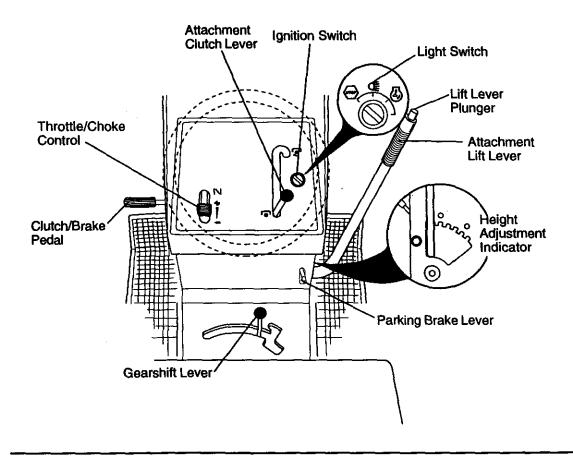
DANGER, KEEP HANDS AND FEET AWAY

FREE WHEEL (Automatic Models only)

KNOW YOUR TRACTOR

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

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



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

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

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

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

GEARSHIFT LEVER - Selects the speed and direction of tractor.

IGNITION SWITCH - Used for starting and stopping the engine.

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

LIGHT SWITCH - Turns the headlights on and off.

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

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



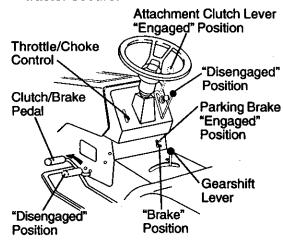
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

 Depress clutch/brake pedal into full "BRAKE" position and hold.

Place parking brake lever in "EN-GAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.



STOPPING

MOWER BLADES -

 To stop mower blades,move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

- To stop 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 unauthorize use.

 Never use choke to stop engine.
 IMPORTANT: Leaving the ignition switch in any position other than "OFF" will cause the battery to be discharged, (dead).

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.

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

TO USE THROTTLE CONTROL

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

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 complet stop before shifting or changing gears. Failure to do so will shorten the useful life of your transaxle.

TO ADJUST MOWER CUTTING HEIGHT

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

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

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

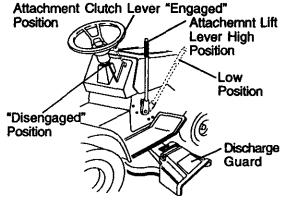
- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first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

TO OPERATE MOWER

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.

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



TO OPERATE ON HILLS

ACAUTION: 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.).

TOWING CARTS AND OTHER ATTACHMENTS

Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor.

ADD GASOLINE

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

IMPORTANT: When operating in temperatures below 32°F(0°C), use fresh, clean winter grade gasoline to help insure good cold weather starting.

A 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.

ACAUTION: 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.

BEFORE STARTING THE ENIGNE CHECK ENGINE OIL LEVEL

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

TO START ENGINE

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

- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place gear shift lever in neutral (N) position.
- Move attachment clutch to "DISEN-GAGED" position.
- · Move throttle control to fast position
- Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed.

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

 Insert key into ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If the engine does not start after several attempts, push choke control in, wait a few minutes and try again. If engine still does not start, pull the choke control out and retry.

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

 The attachments can be used during the engine warm-up period and may require the choke control be pulled out

slightly.

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

MOWING TIPS

 Tire chains cannot be used when the mower housing is attached to tractor.

 Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

The left hand side of mower should be

used for trimming.

 Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the tractor. 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.

 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.

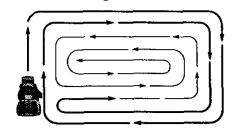
 Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to

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.



MAINTENANCE

AS	MAINTENANCE SCHEDUL L IN DATES YOU COMPLETE GULAR SERVICE	E	EFORE	VEHY &	LERY 2	VERY S	VER'	S HOUS ON HOUS VERY S	S ON LASON EFORE	SER	GE VICE	DAT	ES
·	Check Brake Operation	1	1									Ī	
	Check Tire Pressure	~	1										
Т	Check Operator Presence and Interlock Systems	~											
R	Check for Loose Fasteners	1				17		1					
A	Sharpen/Replace Mower Blades			1									
Ι¥	Lubrication Chart			/				1					
ΙċΙ	Check Battery Level			\									
Ř	Clean Battery and Terminals			/				1					
	Check Transaxle Cooling			<									
	Adjust Blade Belt(s) Tension					1 5							
L	Adjust Motion Drive Belt(s) Tension					1 5							
Г	Check Engine Oil Level	~	1						Γ				
i	Change Engine Oil			1,2,3				~					
lΕ	Clean Air Filter			1/2									
N	Clean Air Screen			1/2									
Ģ	Inspect Muffler/Spark Arrester				1						Ī		
ľ	Replace Oil Filter (If equipped)					1.2			1	T	Γ		
E	Clean Engine Cooling Fins					1/2							
-	Replace Spark Plug					1	1						
1	Replace Air Filter Paper Cartridge		П			1/2			1		Τ		
1	Replace Fuel Filter						1	1			1		

- 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 fitter, change oil every 50 hours. 4 - Replace blades more often when mowing in sandy soil.

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

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.

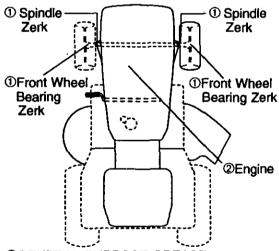
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

 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 operator presence and interlock systems for proper operation.
- · Check for loose fasteners.

LUBRICATION CHART



①GENERAL PURPOSE GREASE ②REFER TO MAINTENANCE "ENGINE" SECTION

IMPORTANT: Do not oil or grease the pivot points which have special nylon bearings. Viscous lubricants will attract dust and dirt that will shorten the life of the self-lubricating bearings. If you feel they must be lubricated, use only a dry, powdered graphite type lubricant

17 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 "PRODUCT SPECIFICATIONS" section 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.

NOTE: To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.

OPERATOR PRESENCE SYSTEM

Be sure operator presence and interlock systems are working properly. If your tractor does not function as described, repair the problem immediately.

- The engine should not start unless the clutch/brake pedal is fully depressed and attachement clutch control is in the disengaged position.
- When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine.
- The attachment clutch should never operate unless the operator is in the seat.

BLADE CARE

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

BLADE REMOVAL

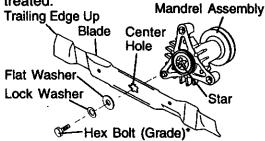
- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.

 Install new or resharpened blade with trailing edge up towards deck as shown.

IMPORTANT: To ensure proper assembly, center hole in blade must align with star on mandrel assembly.

- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (27-35 Ft. Lbs. torque).

IMPORTANT: Blade bolt is Grade 8 heat treated.



*A Grade 8 heat treated bolt can be identified by six lines on the bolt head.

TO SHARPEN BLADE

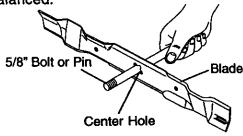
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer.)

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

 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.



BATTERY

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

- · Keep battery and terminals clean.
- · Keep battery bolts tight.
- Keep small vent holes open.
- Recharge at 6-10 amperes for 1 hour.
 NOTE: The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary.

TO CLEAN BATTERY AND TERMINALS Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

- Open battery box door.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "REPLACING BATTERY" in the SERVICE AND ADJUSTMENTS section of this manual).

V-BELTS

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

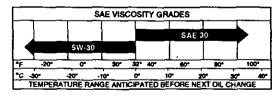
TRANSAXLE COOLING

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

ENGINE

LUBRICATION

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



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

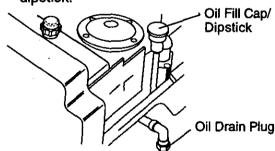
Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

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

TO CHANGE ENGINE OIL

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

- · 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" section of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.



CLEAN AIR SCREEN

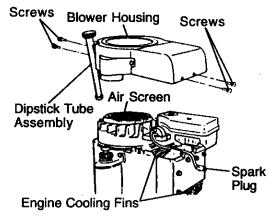
Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers.

19

ENGINE COOLING FINS

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

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



AIR FILTER

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(s) and cover.

TO SERVICE PRE-CLEANER

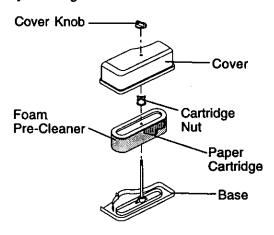
- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- · Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace precleaner.
- Reinstall pre-cleaner over cartridge.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

TO SERVICE CARTRIDGE

- · Remove cartridge nut.
- Carefully remove cartridge to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor.

- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge, nut, precleaner, cover and secure with knob(s).

IMPORTANT: Petroleum solvents, such as kerosene, are not to be used to clean the cartridge. They may cause deterioration of the cartridge. Do not oil cartridge. Do not use pressurized air to clean or dry cartridge.



MUFFLER

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

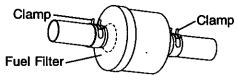
SPARK PLUGS

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" section of this manual.

IN-LINE FUEL FILTER

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.



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.

SERVICE AND ADJUSTMENTS

ACAUTION: 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

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

 Place attachment clutch in "DISEN-GAGED" 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 deck is to be mounted on the tractor, remove the front links.

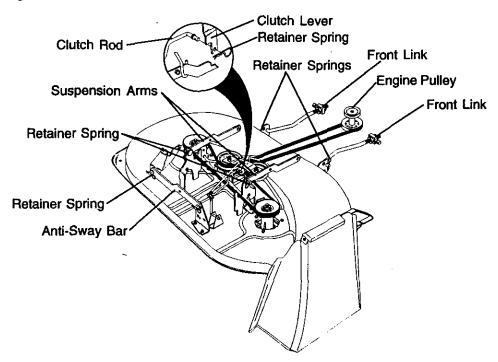
TO INSTALL MOWER

 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.



TO LEVEL MOWER HOUSING

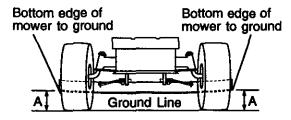
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS" on page 5 of this manual). If tires are over or underinflated, you will not properly adjust your mower.

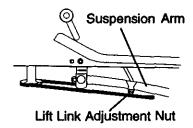
SIDE-TO-SIDE ADJUSTMENT

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

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

Recheck measurements after adjusting.



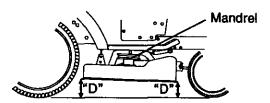


FRONT-TO-BACK ADJUSTMENT IMPORTANT: Deck must be level side-to side. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

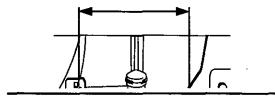
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

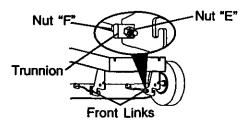
Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- 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 1/8" to 1/2" 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 1/8" to 1/2" lower at front than rear, tighten nut "F" against trunnion on both front links.
- Recheck side-to-side adjustment.



Both Front Links Should be Equal in Length





TO REPLACE MOWER BLADE DRIVE BELT

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

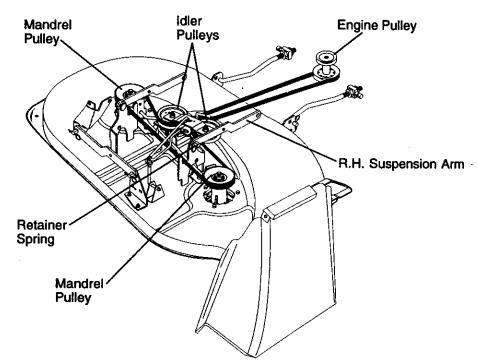
BELT REMOVAL -

- Place attachment clutch in "DISEN-GAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.

- Disconnect R.H. suspension arm from rear deck bracket by removing retainer spring.
- Work belt off both mandrel pulleys and idler pulleys.
- · Pull belt away from mower.

BELT INSTALLATION -

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



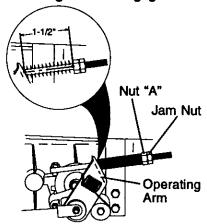
TO ADJUST BRAKE

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.

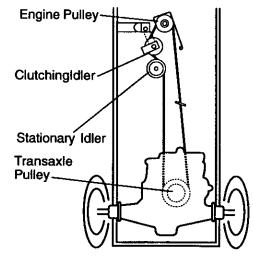
With Parking Brake "Engaged"



TO REPLACE MOTION DRIVE BELT

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

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Remove belt from stationary idler and clutching idler.
- Pull belt stack 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.



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-INCAMBER

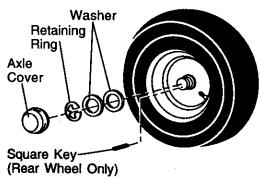
The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center/department.

TO REMOVE WHEEL FOR REPAIRS

- 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.

NOTE: To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.



TO START ENGINE WITH A WEAK BATTERY

A 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. (See "BATTERY" in the MAINTENANCE section of this manual).

If "jumper cables" are used for emergency starting, follow this procedure:

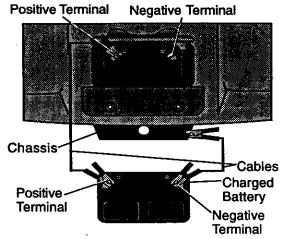
IMPORTANT: Your tractor is equipped with a 12 volt negative grounded system. The other vehicle must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

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 NEGATIVE (-) 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 -

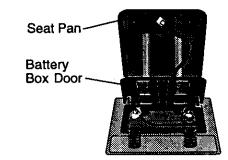
- BLACK cable first from chassis and then from the fully charged battery.
- 24 RED cable last from both batteries.

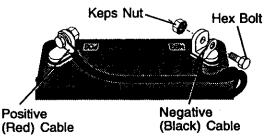


REPLACING BATTERY

▲CAUTION: Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands,rings,etc.

- Lift hood to raised position.
- · Remove terminal guard.
- Disconnect BLACK battery cable then RED battery cable and carefully remove battery from tractor.
- Install new battery with terminals in same position as old battery.
- · Reinstall terminal guard.
- First connect RED battery cable to positive (+) battery terminal with hex bolt and keps nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt and keps nut. Tighten securely
- Close terminal access doors.
- · Close hood.





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.

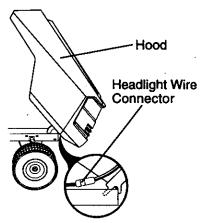
 Check wiring. See electrical wiring diagram in the Repair Parts section.

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

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



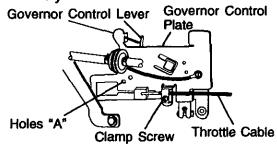
ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any non-road engine repair establish ment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

TO ADJUST THROTTLE CONTROL CABLE

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

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



TO ADJUST CARBURETOR

NOTE: The carburetor on this engine is low emission. It is equipped with an idle fuel adjusting needle with a limiter cap, which allows some adjustment within the limits allowed by the cap. Do not attempt to remove the limiter cap. The limiter cap cannot be removed without breaking the adjusting needle.

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows: In general, turning idle mixture valve in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the idle mixture valve out (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

IMPORTANT: Damage to the needle valve and the seat in carburetor may result if screw is turned in too tight.

PRELIMINARY SETTING -

- Air cleaner assembly must be assembled to the carburetor when making carburetor adjustments.
- Be sure the throttle control cable is adjusted properly (see above).

FINAL SETTING -

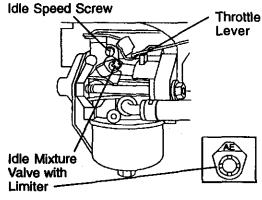
- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- Move throttle control lever to slow position. With finger, rotate and hold throttle lever against idle speed screw. Turn idle speed screw to attain 1750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

ACCELERATION TEST-

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

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

IMPORTANT: Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest AUTHO-RIZED service center/department, which has proper equipment and experience to make any necessary adjustments.



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

ACAUTION: 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.
- 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 9called 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).

CYLINDER(S)

- 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 CHART

PROBLEM	CAUSE	CORRECTION
Will not start	Out of fuel.	• Fill fuel tank.
Will Hot Start	Engine not "CHOKED"	• See "TO START ENGINE"
'	properly.	in Operation section.
	Engine flooded.	Wait several minutes
		before attempting to start.
;	Bad spark plug.	Replace spark plug.
	Dirty air filter. Dirty fuel filter.	Clean/replace air filter. Replace fuel filter.
	Water in fuel.	Drain fuel tank and
		carburetor, refill tank with
		fresh gasoline and replace
	• Loopo or domogod	fuel filter.
	 Loose or damaged wiring. 	Check all wiring.
	Carburetor out of	See "To Adjust Carburetor"
	adjustment.	in Service Adjustments
		section.
	Engine valves out of	Contact an authorized
	adjustment.	service center/department.
Hard to start	Dirty air filter.	Clean/replace air filter.
	Bad spark plug. Weak or dead battery.	Replace spark plug. Recharge or replace
	Treat of dead battery.	battery.
	Dirty fuel filter.	Replace fuel filter.
	Stale or dirty fuel.	Drain fuel tank and refill with
	la Lagge or domograd	fresh gasoline.
•	Loose or damaged wiring.	Check all wiring.
	Carburetor out of	See "To Adjust Carburetor"
	adjustment.	in Service Adjustments
		section.
	 Engine valves out of adjustment. 	 Contact an authorized service center/department.
		
Engine will not turn over	Clutch/brake pedal not depressed.	Depress clutch/brake pedal.
Over	Attachment clutch is	Disengage attachment
	engaged.	clutch.
	Weak or dead battery.	Recharge or replace
	Blown fuse.	battery.
	Corroded battery	Replace fuse. Clean battery terminals.
	terminals.	Circuit Dation y torrininator
•	Loose or damaged	Check all wiring.
	wiring.	- Charles is in him
	Faulty ignition switch.	Check/replace ignition switch.
	Faulty solenoid or	Check/replace solenoid or
	starter.	starter.
	Faulty operator	Contact an authorized
	presence switch(es).	service center/department.
	 Weak or dead battery. 	Recharge or replace
Engine clicks but will	■ · · · · · · · · · · · · · · · · · · ·	
Engine clicks but will not start	• Corroded battery	battery. • Clean battery terminals.
	Corroded battery terminals.	Clean battery terminals.
	terminals. • Loose or damaged	Clean battery terminals. Check all wiring.
	terminals.	Clean battery terminals.

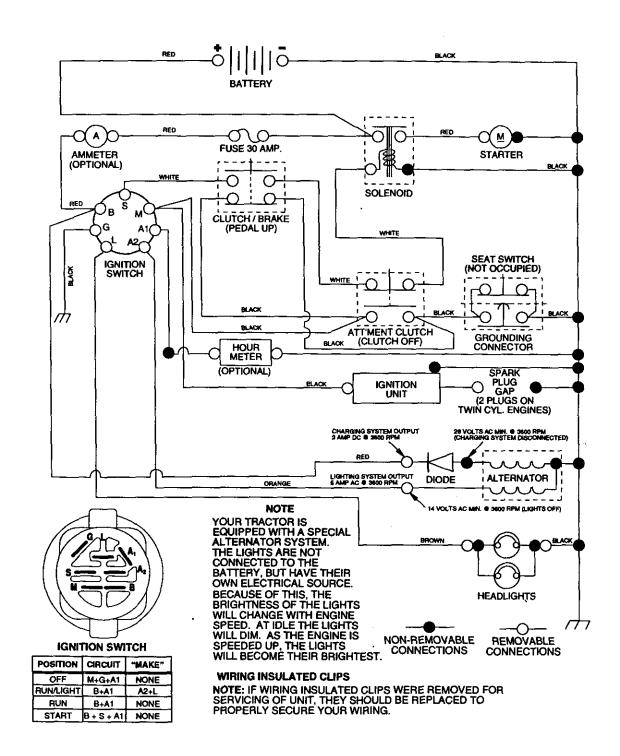
TROUBLESHOOTING CHART

TROUBLESHOOTING (
PROBLEM	CAUSE	CORRECTION
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. 	 Set in "Higher Cut" position/ reduce speed. Adjust throttle control.
	 Build-up of grass, leaves and trash under mower. 	Clean underside of mower housing.
	Dirty air filter.Low oil level/dirty oil.Faulty spark plug.	 Clean/replace air filter. Check oil level/change oil. Clean and regap or change
	Dirty fuel filter.	spark plug. • Replace fuel filter.
	Stale or dirty fuel.Water in fuel.	Drain fuel tank and refill with fresh gasoline. Drain fuel tank and corbura
		Drain fuel tank and carbure tor, refill tank with fresh gasoline and replace fuel filter.
	Spark plug wire loose. Dirty onging air screen/	Connect and tighten spark plug wire.
	Dirty engine air screen/ fins. Dirty/clogged muffler.	Clean engine air screen/fins.Clean/replace muffler.
	Loose or damaged wiring.	Check all wiring.
	Carburetor out of adjustment.	See "To Adjust Carburetor" in Service Adjustments section.
	Engine valves out of adjustment.	Contact an authorized service center/department.
Excessive vibration	Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s).	 Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.
Engine continues	Faulty operator-safety	Check wiring, switches and
to run when operator leaves seat with attachment clutch engaged	presence control system.	connections. If not corrected, contact an authorized service center/department.
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing.
	Bent blade mandrel. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.	Replace blade mandrel. Clean around mandrels to open vent holes.
Mower blades will not rotate	Obstruction in clutch mechanism.	Remove obstruction.
	Worn/damaged mower drive belt. Frozen idler pulley.	Replace mower drive belt.Replace idler pulley.
	Frozen blade mandrel.	Replace blade mandrel.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION			
Poor grass discharge	Engine speed too slow.Travel speed too fast.Wet grass.	 Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing. 			
	 Mower deck not level. Low/uneven tire air pressure. Worn, bent or loose blade. Buildup of grass, leaves and trash under mower. Mower drive belt worn. 	Level mower deck. Check tires for proper air pressure. Replace/sharpen blade. Tighten blade bolt. Clean underside of mower housing. Replace mower drive belt.			
	 Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Reinstall blades sharp edge down. Replace with blades listed in this manual. Clean around mandrels to open vent holes. 			
Headlight(s) not working (if so equipped)	 Switch is "OFF". Bulb(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn switch "ON". Replace bulb(s). Check/replace light switch. Check wiring and connections. Replace fuse. 			
Battery will not charge	 Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. 	 Replace battery. Check/clean all connections. Replace regulator. Replace alternator. 			
Loss of Drive	 Freewheel control in "disengaged" position. Motion drive belt worn, damaged or broken. Air trapped in transmiss- ion during shipment or servicing. 	 Place freewheel control in "engaged" position. Replace motion drive belt. 			
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.			

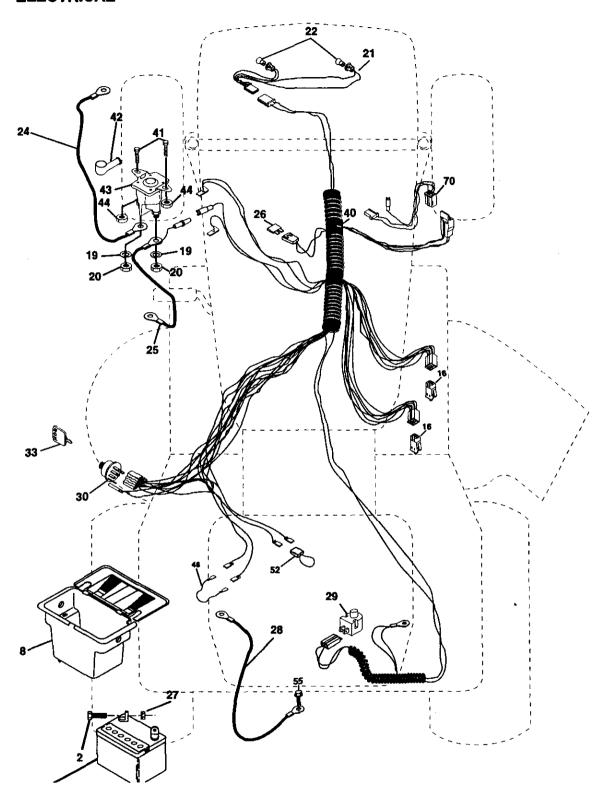
SCHEMATIC



REPAIR PARTS

TRACTOR-MODEL NUMBER 917.270430

ELECTRICAL



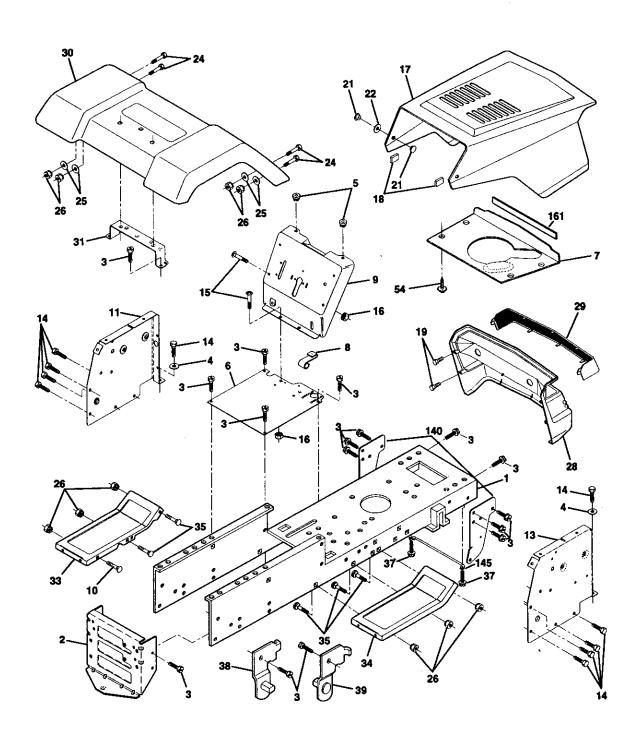
TRACTOR-MODEL NUMBER 917.270430

ELECTRICAL

PART NO.	DESCRIPTION
144925	Battery 12 Volt 25 Amp
74760412	Bolt, Hex Head 1/4-20 unc x 3/4
156417	Case, Battery Mech Hinge
153664	Switch, Interlock Push-In
	Washer, Lock
	Nut, Hex, Jam 1/4-20 UNC
166181	Harness, Light Socket (Includes 4152J)
4152J	Bulb, Light
4799J	Cable, Battery, 6 Gauge, Red, 11"
146147	Cable, Battery, 6 Gauge, Red, W/16 Wire
166180	Fuse
73510400	Nut Keps Hex 1/4-20 UNC
4207J	Cable, Ground, 6 Gauge, Black, 12"
121305X	Switch, Plunger
163968	Switch, Ignition
140403	Key, Ignition
	Harness, Ignition
	Bolt, Hex Head, Fin. 1/4-20 x 1/2
	Cover, Terminal, Red
	Solenoid
	Nut Keps Blk Hex 1/4-20 UNC
	Adaptor Ammeter Rectangular
141940	Protection Wire Loop
166658	Harness Engine B&S
	NO. 144925 74760412 156417 153664 STD551125 73350400 166181 4152J 4799J 146147 166180 73510400 4207J 121305X 163968 140403 166151 71110408 131563 145673 73640400 140844

NOTE: All component dimensions given in U. S. inches 1 inch ≈ 25/4 mm

TRACTOR -- MODEL NUMBER 917.270430 CHASSIS AND ENCLOSURES



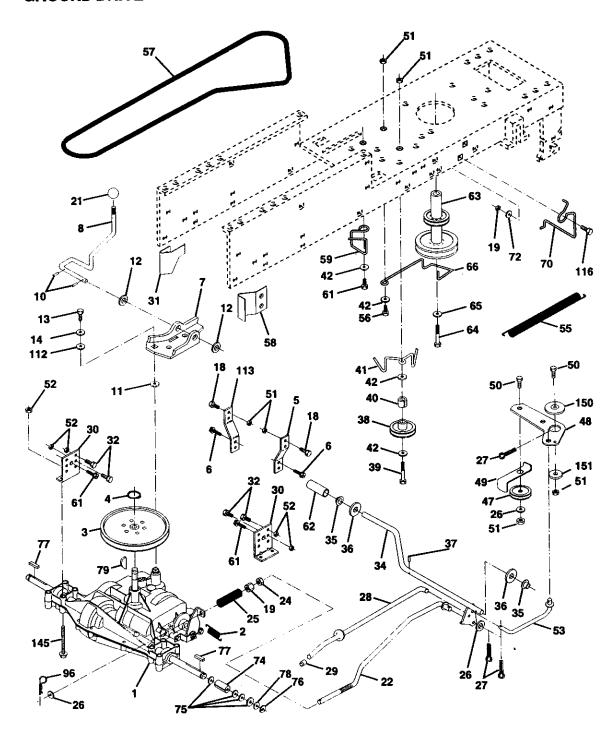
TRACTOR -- MODEL NUMBER 917,270430 CHASSIS AND ENCLOSURES

KEY PART NO. NO.	DECORPTION
NO. NO.	DESCRIPTION
1 165480	Chassis Asm. LT STMP
2 140356	Drawbar Stretch
3 17490612	Screw Thdrol 3/8-16 x 3/4 Ty-tt
4 STD551025	Washer 13/32 X 3/4 X 16 Ga
5 155272	Bumper Hood/Dash
6 155924X011	Saddle Sikscr Fit LT 6SP Peerless
7 126842X	Shield Ht. Hood Lt
8 155138	Clip Retainer Slide-On
9 166318X012	Dash Siksor 1-pc
10 STD533710	Bolt Right Sqnk 3/8-16unc X 1
11 155927	Panel Dash LH
13 155934X010	Panel Sikscr Dash RH
14 17490608	Screw Thdrol 3/8-16 x 1/2 Ty-tt
15 74180512	Screw Mach TRHD 5/16-18 unc x 3/4
16 STD541431	Nut Keps 5/16-18 Unc
17 154988X558	Hood Asm
18 126938X	BumperHood
19 164863	Screw Hwhd Hi-Lo #13-16 x 3/4
21 122933X	Rivet Ratchet Nylon
22 124479X	Washer Nylon Blk 28 x 75 x 19
24 STD523710	Bolt Fin Hex 3/8-16 unc x 1 Gr. 5
25 19131312 26 STD541437	Washer 13/32 X 13/16 x 12 Ga Nut Hex Lock W/lns. 3/8-16 Unc
26 STD541437 28 140135X428	Grille Black
29 124029X599	
30 157584X558	Lens Headlight Bar Clear Fender Pnt LT W/o Shift
31 136619	Bracket Fender Repl 109873x
33 105476X558	Footrest Pnt Lh
34 105475X558	Footrest Prit Rh
35 STD533707	Bolt Right Sht Sank 3/8-16 x 3/4
37 17490508	Screw Thdrol 5/16-18 x 1/2
38 139886	Bracket Asm Pvt LH MWR Rear
39 139887	Bracket Asm Pvt RH MWR Rear
54 161464	Screw
140 158418	Bracket Suspension Front
145 156524	Rod Pivot Chassis/Hood
161 161547	Extrusion Hood
5479J	Plug Button Blk 359 Dia Choke

NOTE: All component dimensions given in U. S. inches 1 inch ≈ 25/4 mm

TRACTOR-MODELNUMBER 917.270430

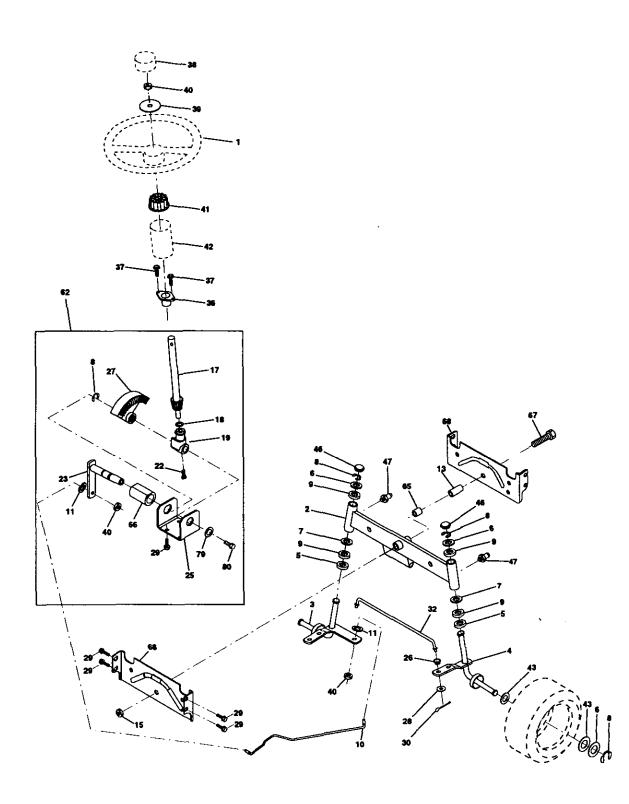
GROUND DRIVE



GROUND DRIVE

	PART			PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1		Transaxle Peerless 205-544C	47	127783	Pulley Idler V Groove Plastic
		(See Breakdown)	48	154407	Bellcrank Asm. Clutch
2	146682	Spring Return Brake T/a Zinc	49	123205X	Retainer Belt Style Spring
3	123666X	Pulley Transaxle 18/20" tires	50	STD523715	Bolt Hex Hd 3/8-16unc x 1-1/2
4	12000028	Ring Retainer # 5100-62	51	STD541437	Nut Crownlock 3/8-16 UNC
5	121520X	Strap Torque 30 Degrees	52	STD541431	Nut Crown Lock 5/16-18
6	17490512	Screw Thdrol 5/16-18 x 3/4 TYT	53	105710X	Link Clutch 7 66
7	162240	Bracket Saddle Shift T/a	55	105709X	Spring Return Clutch 6 75
8	131679	Rod Shf Sdl LY/YT Str Blk Zinc	56	STD523712	Bolt Fin Hex 3/8-16 unc x 1-1/4
10	STD561210	Pin Cotter 1/8 x 1 Cad	57	130801	V-Belt Gd Drive 95 00
11	105701X	Washer Plate Shf 388 Sq Hole	59	140312	Keeper Belt Centerspan
12	19151216	Washer 15/32 x 3/4 x 16ga	61	17490612	Screw Thdrol 3/8-16 x 3/4 Ty-tt
13	74550412	Bolt 1/4-28unf Gr8 W/Patch	62	8883R	Cover Pedal Bik Round
14	STD551125	Washer Lock Hvy Helical 1/4	63	140186	Pulley Eng Cl Mech 38deg LT/YT
18	STD523710	Bolt Fin Hex 3/8-16 UNC x 1 Gr. 5	64	71170764	Bolt Hex 7/16-20 x 4 Gr 5
19	STD541437	Nut Lock Hex W/lns. 3/8-16 Unc	65	STD551143	Washer Lock Hvy Hlcl Spr 7/16
21	106933X	Knob Rd 1/2-13 Plstc Thds Blk	6 6	154778	Keeper Belt Engine Fool Proof
22	130804	Rod Brake Blk Zinc 26 840	70	134683	Guide Belt Mower Drive RH
24	STD541237	Nut Hex Jam 3/8-16 Unc	72	19132012	Washer 13/32 x 1-1/4 x 12 Ga
25	106888X	Spring Rod Brake 2 00 Zinc	74	137057	Spacer Axle
26	STD551037	Washer 13/32 x 13/16 x 16 Ga		121749X	Washer 25/32 x 1 1/4 x 16 Ga
27	STD561210	Pin Cotter 1/8 x 3/4 Cad	76	STD581075	E-ring #5133-75
28	145204	Rod Brake Parking Lt/Yt	77	123583X	Key Šquare 2 0 x 1845/ 1865
29	124236X	Cap Brake Parking Red	78	121748X	Washer 25/32 x 1-5/8 x 16 Ga
30	130807	Bracket Mtg Transaxle	79	2228M	Key Woodruff #9 3/16 x 3/4
32	STD523107	Bolt Hex Hd 5/16-18unc x 3/4	96	4497H	Retainer Spring 1"
34	155071	Shaft Asm Pedal Foot LT/STLT	112	19091210	Washer 9/32 x 3/4 x 10 Ga
35	120183X	Bearing Nylon Blk 629 Id	113	127285X	Strap Torque LH LT
36	STD551062	Washer 21/32 x 1 x 16 Ga	116	72110610	Bolt Rdhd Sq Neck 3/8-16 x 1.25
37	1572H	Pin Roll 3/16 x 1"		74490540	Bolt Hex Fighd 5/16-18 x Gr. 5
38	131494	Pulley Idler Flat	150	165850	Bushing Bellcrank GRD Drive
39	STD523727	Bolt Fin Hex 3/8-16unc x 2-3/4	151	19133210	Washer 13/32 x 2 x 10 Ga.
40	4470J	Spacer Split 395 x 59 Bzp	170	165849	Keeper Belt Transaxle Gear
41	165838	Keeper Belt Idler			
42	19131312	Washer 13/32 x 13/16 x 12 Ga	NO.	TE: All compor	nent dimensions given in U.S.

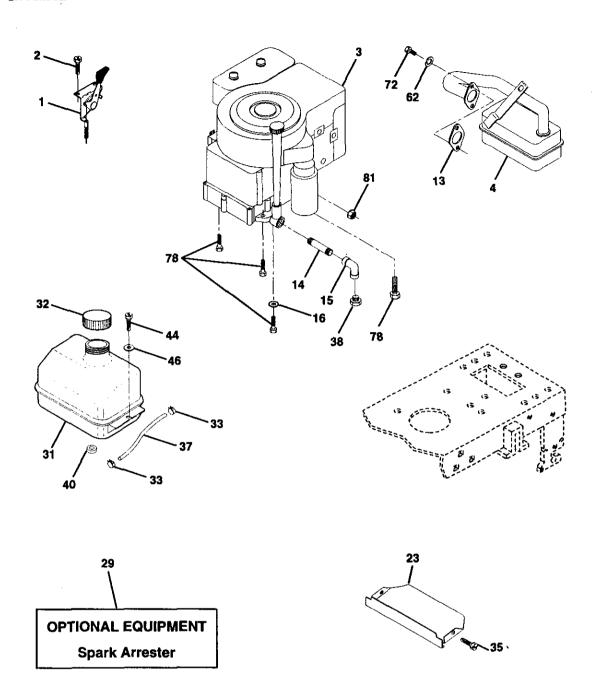
STEERING



STEERING

KEY PART NO. NO.	DESCRIPTION
1 139768	Steering Wheel
2 154427	Axle Assembly STMP Dropped STL
3 156483	Spindle Assembly, L.H.
4 157473	Spindle Assembly, R.H.
5 6266H	Bearing, Race, Thrust, Hardened
6 121748X	Washer 25/32 x 1-5/8 x 16 Gauge
7 19272016	Washer 27/32 x 1-1/4 x 16 Gauge
8 12000029	Ring, Klip
9 3366R	Bearing, Steering Column
10 156438	Draglink Extended Stamped
11 STD551137	Washer, Lock
13 154779	Bearing Axle STLT/GT
15 73901000	Nut, Lock, Flange 5/8-11 UNC
17 156545	Shaft Assembly, Steering
18 57079	Washer, Thrust .515 x .750 x .033
19 160395	Support, Shaft
22 165857	Screw, Hex Wshhd
23 165851	Pittman Shaft Assembly
25 154406	Bracket, Steering
26 126847X	Bushing, Link, Drag
27 136874	Gear, Sector
28 19131416	Washer 13/32 x 7/8 x 16 Gauge
29 17490612	Screw, Thd., Roll. 3/8-16 x 3/4
30 STD561210 32 130465	Pin Bod Tie
36 155099	Rod, Tie
37 152927	Bushing, Steering Screw
38 139769	Insert, Steering Wheel
39 19133808	Washer 13/32 x 2-3/8 x 8 Gauge
40 STD541537	Gripco Nut
41 104820X	Adaptor, Steering Wheel
42 124417X	Boot, Steering Shaft
43 121749X	Washer 25/32 x 1-1/4 x 16 Gauge
46 121232X	Cap, Spindle
47 6855M	Fitting, Grease
62 167903	Kit Steering Asm Service
65 154780	Spacer Axle
66 154404	Bearing Arm Pittman
67 74781044	Bolt, Fin Hex 5/8-11 UNC x 2-3/4
68 154429	Axle, Brace
79 19132012	Washer 13/32 x 1-1/4 x 12 Ga.
80 74950612	Bolt Hex Nylon 3/8-16 x 3/4

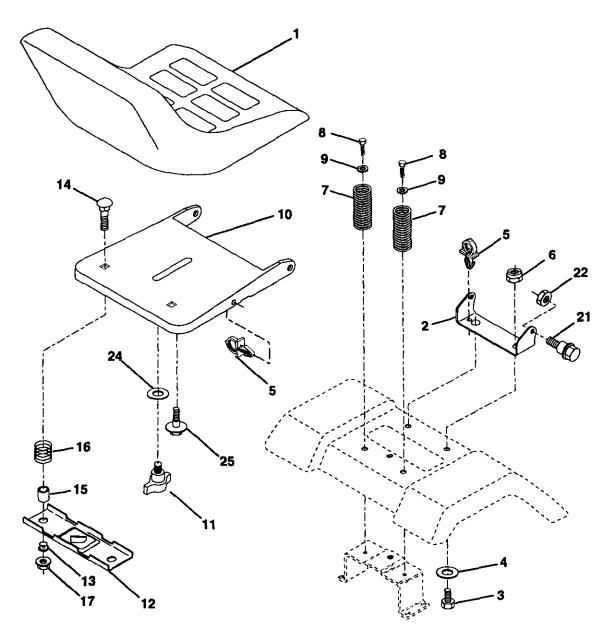
ENGINE



ENGINE

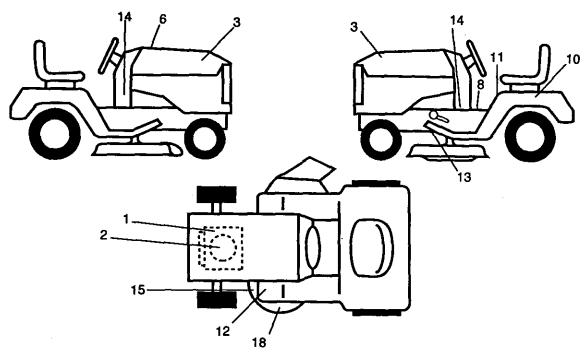
KEY PART NO. NO.	DESCRIPTION
1 162144	Control Th/ch RH Blk Pdl 15 10
2 17720410	Screw Hex Thd Cut 1/4-20x5/8 T
3	Engine (See Breakdown)
	Briggs Model 28R707-1140-E1
4 137348	Muffler
13 165291	Gasket Eng 1 313 ld Tin Plated
14 13280324	Nipple Pipe 3/8 Npt x 3"
15 13200300	Elbow Std 90 Degree 3/8-18 Npt
16 STD551237	Washer Lock Ext Tooth 3/8
23 159880	Shield Browning
29 137180	Kit Spark Arrestor (Flat Scm)
31 109202X	Tank Fuel Front 1 25
32 158990	Cap Asm Fuel W/sym Vented
33 123487X	Clamp Hose Blk
35 17490512	Screw Thdrol 5/16-18 x 3/4 TYT
37 137040	Line Fuel 20"
38 40 124028X	Plug Oil Drain (See Engine Breakdown) Bushing Snap Nyl Blk Fuel Line
44 17490412	Screw Hexwsh Thdrol 1/4-20 x 3/4
46 19091416	Washer 9/32 x 7/8 x 16 ga
62 STD551131	Washer Lock Hvy Hlcl Spr 5/16
72 71070512	Screw Hex Hd Cap 5/16-18 X 3/4
78 17490620	ScrewThdrol3/8-16x1-1/4TYTT
81 128861	Nut Flange 1/4-20 Starter Nut

SEAT ASSEMBLY



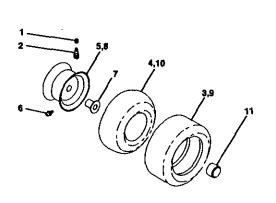
KEY NO.	PART NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12	127426X 140551 STD523710 19131610 145006 STD541437 124181X 17490616 19131614 155925 166369 121246X	Seat Bracket Pvt St Bolt Fin Hex 3/8-16unc X 1 Washer Flat 13/32 X 1 X 10 Ga Clip Push-In Hinged Locknut Hex W/Wsh 3/8-16 Spring Seat Cprsn 2 250 Blk Zi Screw Thdrol 3/8-16 X 1 Ty-tt Washer 13/32 X 1 X 14 Ga Pan Seat Knob Seat Adj. Wingnut Bracket Mounting Switch	13 121248X 14 72050412 15 134300 16 121250X 17 123976X 21 153236 22 STD541431 24 19171912 25 127018X NOTE: All composinches 1	Bushing Snap Blk Nyl 50 ld Bolt Rdhd Sht Nk 1/4-20x1-1/2 Spacer Split 28x 96 Yel Zinc Spring Cprsn 1 27 Blk Pnt Nut Lock 1/4 Lge Flg Gr 5 Zinc Bolt Shld 5/16-18 Unc Nut Lock Hex "W/Ins 5/16-18 Washer 17/32 X 1-3/16 X 12 Ga Bolt Shoulder 5/16-18 X 62 Denent dimensions given in U. S. inch = 25/4 mm

DECALS



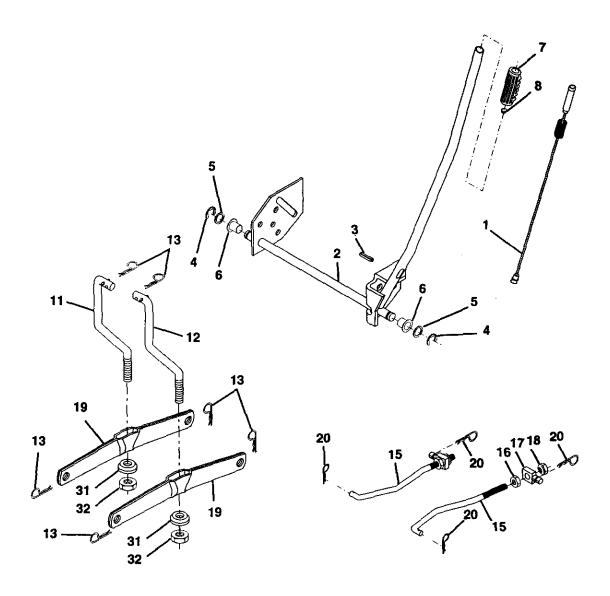
KEY NO.	PART No.	DESCRIPTION		PART NO.	DESCRIPTION
1	165837	Decal, Engine	12	4900J	Decal, Clutch/Brake Eng
2	167177	Decal Engine	13	146046	Decal V-Belt Dr Sch tractor
3	163204	Decal Fender Craftsman White	14	163248	Decal Panel Dash
6	133644	Decal Maint Cust Sears	15	136832	Decal V-Belt sch
		Domestic	18	133179	Decal Mower QC System
8	156867	Decal, Oper sdl P/L Gear		138311	Decal Handle Lft Height Adjust
10	149516	Decal Battery Dngr/Psn Eng			(Lift Handle)
		Acme		167766	Òwner's Manual, English
11	156439	Decal Fender Eng/Span Dnger		167767	Owner's Manual, Spanish

WHEELS AND TIRES



KEY PART NO. NO.	DESCRIPTION
1 59192	Cap Valve Tire
2 65139	Stem Valve
3 106222X	Tire F Ts 15 X 6 0 - 6 Service
4 59904	Tube Front (Service Item Only)
5 106732X42	
6 278H	Fitting Grease (Front Wheel Only)
7 9040H	Bearing Flange (front Wheel
	Only)
8 106108X42	7 Rim Asm 8"rear White Service
9 122082X	Tire Rear
10 7152J	Tube Rear (Service Item Only)
11 104757X	Cap Axle Blk 1 50 X 1 00
144334	Sealant, Tire (10 oz. Tube)

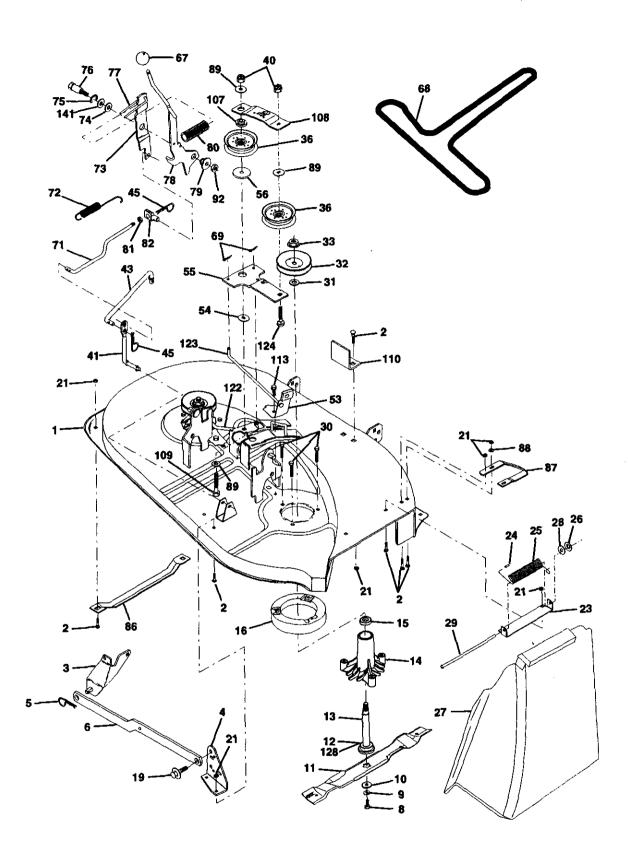
LIST ASSEMBLY



LIST ASSEMBLY

KEY PART	
NO. NO.	DESCRIPTION
1 159460	Wire Asm Inner W/plunger
2 159474	Shaft Asm Lift
3 105767X	Pin Groove 1 500 Zinc
4 12000002	E Ring #5133-62
5 19211621	Washer Pltd 21/32 X 1 X 21ga
6 120183X	Bearing Nylon Blk 629 Id
7 125631X	Grip Handle Fluted Blk
8 122365X	Button Plunger Red
11 139865	Link Lift LH
12 139866	Link Lift RH
13 STD624008	Retainer Spring
15 127218	Link Front
16 73350800	Nut Jam Hex 1/2-13 Unc
17 130171	Trunnion Blk Zinc
18 73680800	Nut Crownlock 1/2-13
19 139868	Arm Suspension Rear
20 163552	Retainer Spring Zinc
31 140302	Bearing Pvt Lift Spherical
32 73540600	Nut Crownlock 3/8-24

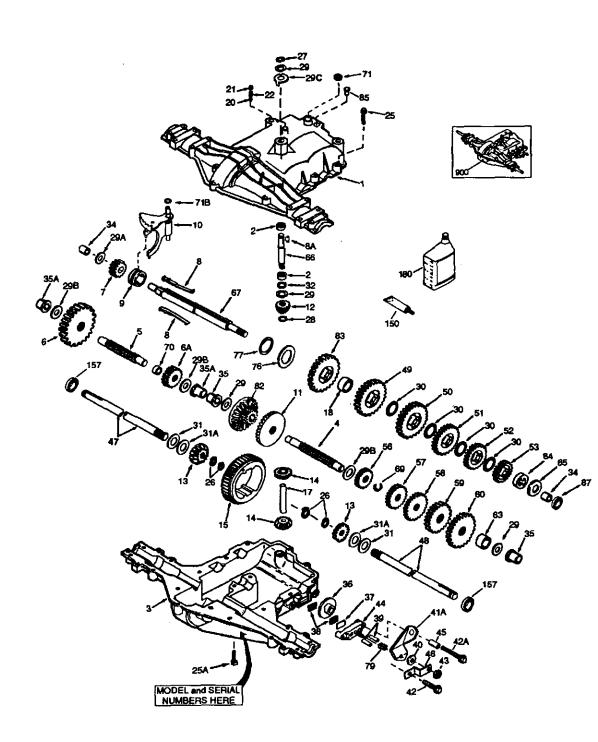
MOWER DECK



MOWER DECK

	PART NO.	DESCRIPTION		PART NO.	DECOUNTION
					DESCRIPTION
1	142829	Mower Housing Assembly	55	133840	idler Arm Assembly
	STD533107	Bolt, Carriage 5/16-18 x 3/4		122052X	Spacer, Retainer 1-3/4
3	138017	Bracket Asm. Fram Sway Bar 38/	67	162113	Knob
	400440	42		144200	Belt
4	138440	Bracket, Asm. Deck Sway Bar		STD560907	Pin, Cotter 3/32 x 3/4
-	OTD004000	38"	71	142427	Rod, Clutch, Primary
5	STD624008	Retainer, Spring		131870	Spring, Return
6	130832	Asm. Suspension Rear	. –	127847	Arm, Clutch, Secondary
_	850857 STD554403	Bolt, Hex 3/8-24 x 1-1/4 Grade 8	74	121748X	Washer 25/32 x 1-5/8 x 16
9	STD551137	Washer, Lock, Hvy Hlcl Spring		4500000	Gauge
40	440000	3/8	75	12000029	Ring, Klip
10	140296	Washer, Hard Blade Mower	-	128903	Bolt, Shoulder
44	404440	Vented	77	127845	Keeper, Spring
11 12	134148	Blade, Mower, Mulching 38"	78	160571	Arm, Clutch, Primary
	129895	Ball Bearing	79	127498	Bushing
13	137645	Shaft and Bearing Assembly		153701	Spring
44	400774	(Includes Key Number 15)	81	STD541237	Nut Hex Jam 3/8-16 UNC
14	128774	Mandrel Housing, Vented		142028	Trunnion Adj 94
15	110485X 140329	Ball Bearing, Mandrel		7631J	Runner, LH
16 19	132827	Stripper, Mower, Vented		128772	Runner, RH
		Bolt, Shoulder	88	19111216	Washer 11/32 x 3/4 x 16 Gauge
21	STD541431	Nut, Crownlock 5/16-18	89	19131612	Washer 13/32 x 1 x 12 Gauge
23 24	137607 105304X	Bracket, Mower Deflector		STD541437	Nut Lock Hex w/Ins 3/8-16 UNC
24 25	105304X 123713X	Cap, Sleeve		133502	Spacer, Retainer
26		Spring, Deflector		133503	Stiffener, Idler Arm
20 27	110452X 106736X	Nut, Push		74760640	Bolt, Hex Head 3/8-16 x 2-1/2
28	19111016	Shield, Deflector Washer 11/32 x 3/4 x 16 Gauge		142587 17490512	Upstop Deck Front 38"
29	106735X	Rod, Hinge	113	17490512	Screw, Hex Head, Thd., Roll. 5/16-18 x 3/4
30	157722	Screw, Thdrol Washer Hd	122	131289	
31	129963	Washer, Spacer		131288	Rod, Brake, LH
32	153532	Pulley, Mandrel		STD533717	Rod, Brake, RH
33	137266	Nut, Flangelock 9/16		153390	Bolt, Carriage 3/8-16 x 1-3/4 Washer Felt
36	131494	Pulley, Idler, Flat		6266H	Washer Thrust .75 x 1.230
40	STD541437	Nut, Crownlock 3/8-16	141	130794	
41	133551	Rod. Pivot		150754	Mandrel Assembly (Includes Key Numbers 12-15, 17-19, 31 and
43	133504	Rod, Clutch, Secondary			33)
45	STD624003	Retainer, Spring		142820	Mower Deck, Complete
53	130840	Brake Assembly			
54	133943	Washer Hardened	NO	TE: All compor inches 1 i	nent dimensions given in U.S. nch = 25/4 mm

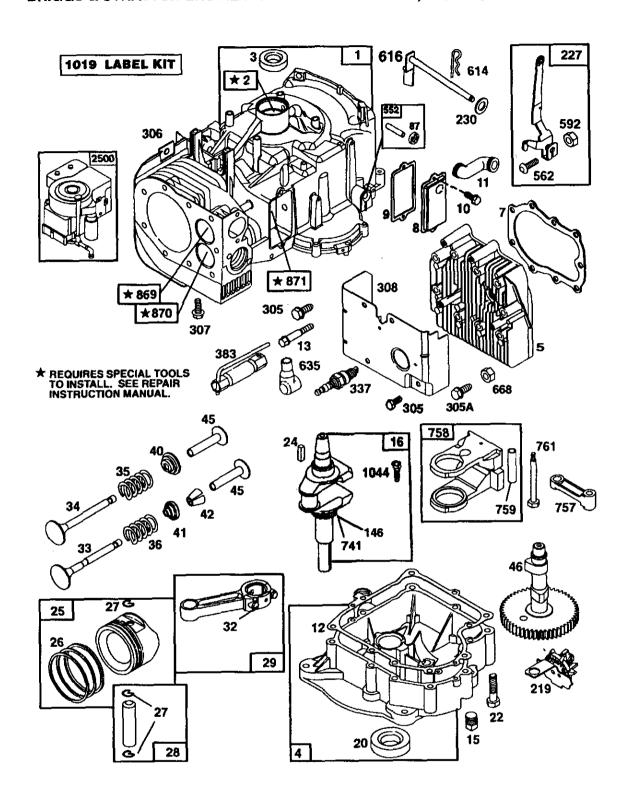
TRACTOR -- MODEL NUMBER 917.270430 PEERLESS TRANSAXLE--MODEL NUMBER 205-544C



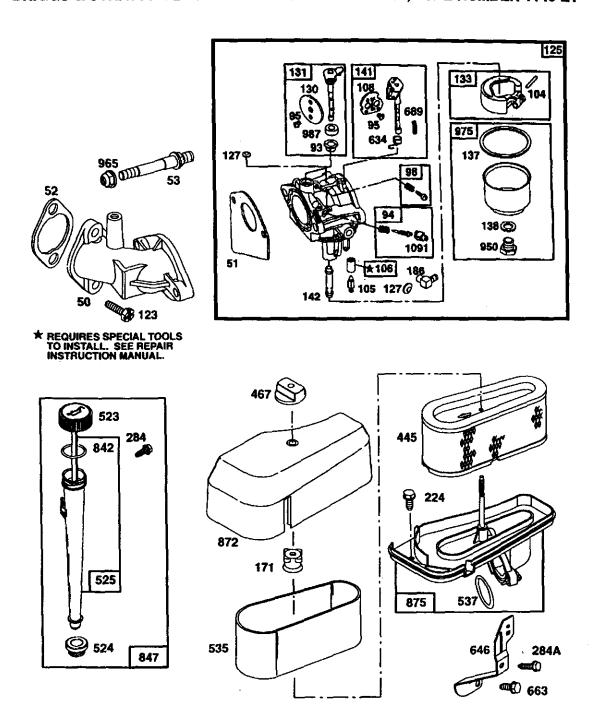
TRACTOR -- MODEL NUMBER 917.270430 PEERLESS TRANSAXLE-MODEL NUMBER 205-544C

REF NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	772147	Transaxle Cover	39	786026	Dowel Pin
ż	780086A	Needle Bearing 5 / 8"	40	792076A	Flat Washer
3	770128	Transaxle Case	70	1320101	.312 ID x .059W
4	776395	Countershaft	41A	790079	Brake Lever
•			42	792073A	Screw 1 / 4 - 20 x 1 - 1 / 4"
5	776409	Output Shaft		792085A	Screw 1 / 4 - 20 x 2 - 1/4"
6	778364	Spur Gear (38 teeth)	43	792075	Locknut 5 / 16 - 24
6A	778369	Spur Gear (15 teeth)	44	790025	Brake Pad Holder
7	778330	Spur Gear (11 teeth)	45	786066	Spacer .2625 x 1.0
8	792180	Shift Key	46	786086	Brake Lever Bracket
A8	792047	Woodruff Key #9	47	774690	Axle (11 - 15 / 16 " long)
9	784352	Shift Collar	48	774691	Axle (16 - 1 / 2" long)
10	784378	Shift Rod & Fork	49	778356	Spur Gear (29 teeth)
11	778334	Bevel Gear (30 teeth)	50	778354	Spur Gear (23 teeth)
12	778309	Input Bevel Pinion (13 teeth)	51	778352	Spur Gear (19 teeth)
13	778368	Bevel Gear (13 teeth)	52	778350	Spur Gear (16 teeth)
		(Include. 14)	53	778346	Spur Gear (15 teeth)
14	778368	Bevel Pinion (13 teeth)	53	778346	Spur Gear (15 teeth - steel)
		(Include 13)	56	778355	Spur Gear (11 teeth)
15	778370	Ring Gear (43 teeth)	57	778353	Spur Gear (17 teeth)
17	786188	Drive Pin	58	778351	Spur Gear (21 teeth)
18	786102	Spacer 1.130 x .695	59	778349	Spur Gear (24 teeth)
20	792077A	Ball 5 / 6" dia	60	778345	Spur Gear (25 teeth)
21	792078	Set Screw 3 / 8-16 x 3 / 8"	63	786071	Countershaft Spacer
22	792079	Spring .310 OD x .625 L	64	700070	1 - 1 / 8" x 3 /8"
25 25 A	792073A 792177	Screw 1/4 - 20 x 1-1 / 4"	64	786072	Brake Shaft Spacer
26 26	792177	Screw 1 / 4 - 20 x 1 - 3 /8"	65	700100	1 - 3 / 8" x 3 / 8" Flat Washer
27	792035	Retaining Ring (pkg of 2) Retaining Ring	65	780189	_
28	788040	Retaining Ring	66	776422	.563 ID x .062W
29	780072	Thrust Washer	67	776396	Input shaft Shifter & Brake shaft
20	700072	.627 ID x .031W	69	792170	Retaining Ring
294	780160	Thrust Washer	70	786187	Spacer .890
,,	.00.00	.563 ID x .031W	71	788069	Square Cut Ring
29B	780051	Thrust Washer		788092	"O" Ring
		.762 ID x .031W	76	780090	Flat Washer
29C	780199	Anti -Rotation Washer .632			1.128 ID x .058W
30	780108	Cup Washer	77	788078A	Inverted Retaining Ring
		1.127 ID x .032W	79	792144	Spring .430 OD x .5000 L
31	780001	Flat Washer .750 ID x .056	. 82	778333	Bevel & Spur Gear
		(Use as Needed)			(30 & 13 teeth)
31A	780195	Flat Washer	83	778338	Spur Gear (27 teeth)
		.750 ID x .062W	85	792154	Oill Fill Plug
32	788083	Oil Seal 5 / 8"	87	788089A	Oil Seal 9 / 16"
34	780194	Bushing .563			
35	780193	Flanged Bushing 5 / 8" ID	150	788093A	Liquid Gasket RTV Silicone
	780197	Flanged Bushing .751			
36	790075	Brake Disk		788088A	Oil Seal 3 / 4"
37	790007	Brake Pad Plate		730229A	Gear Oil 80W90
38	799021	Brake Pad (pkg of 2)	900	794711	Replacement MST-205-
					544C Transaxle

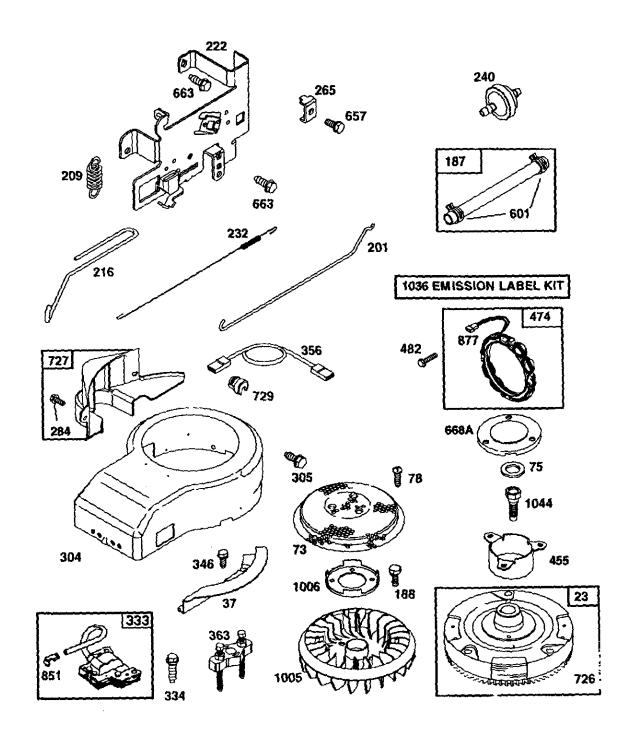
TRACTOR -- MODEL NUMBER 917.270430 BRIGGS & STRATTON ENGINE-MODEL NUMBER 28R707, TYPE NUMBER 1140-E1



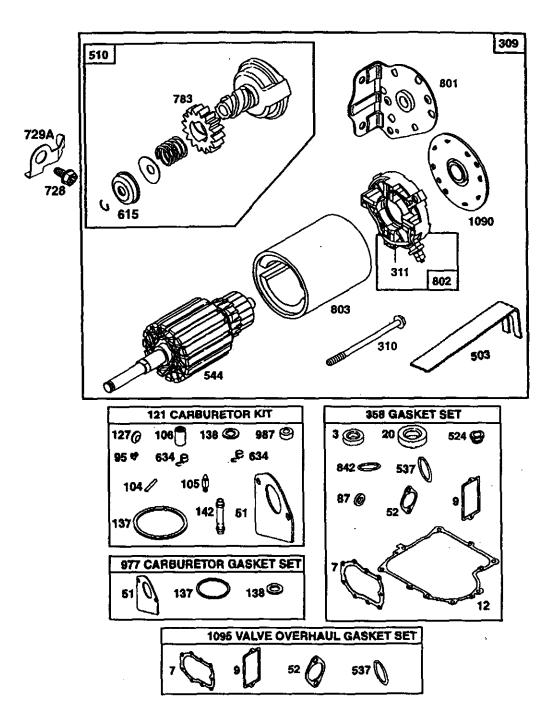
TRACTOR -- MODEL NUMBER 917.270430 BRIGGS & STRATTON ENGINE-MODEL NUMBER 28R707, TYPE NUMBER 1140-E1



TRACTOR-MODEL NUMBER 917.270430 BRIGGS & STRATTON ENGINE-MODEL NUMBER 28R707, TYPE NUMBER 1140-E1



TRACTOR -- MODEL NUMBER 917.270430 BRIGGS & STRATTON ENGINE-MODEL NUMBER 28R707, TYPE NUMBER 1140-E1



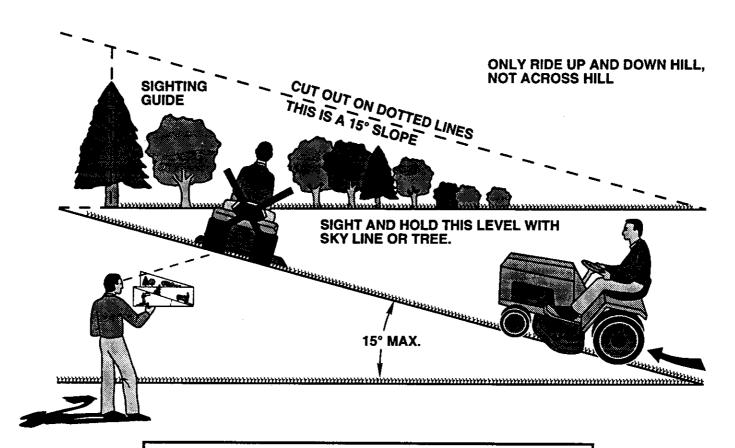
BRIGGS & STRATTON ENGINE-MODEL NUMBER 28R707, TYPE NUMBER 1140-E1

KEY NO.	PART NO.		DESCRIPTION	KEY NO.	PART NO.		DESCRIPTION
1	496413		Cylinder Assembly	51	272465	***	Gasket, Carburetor
2	399265		Bearing, Cylinder	52	272554	+*	Gasket, Carburetor
3	391086	•	Seal, Ŏil	53	94637	٠	Stud, Carburetor Mounting
4	494238		Base, Engine	73	224948		Screen, Rotating
5	494240		Head, Cylinder	75	225136		Washer, Spring
7	271866	+*	Gasket, Cylinder Head	78	94626		Screw, Phillips
8	495735		Breather Assembly	87	491323	*	Seal, Governor
_			(Includes Mounting	93	281346		Bushing, Throttle Shaft
			Gasket)	94	498030		Valve, Needle
9	27803	+*	Gasket, Valve Cover	95	94098	**	Screw, Throttle
10	94621		Screw, Sems	98	495800		Screw, Idle Adjust
11	280100		Tube, Breather	104	231789	**	Pin, Float Hinge
12	271916	•	Gasket, Crankcase Cover,	105	231855	**	Valve, Inlet Needle
			1/64"	106	231854	**	Seat, Inlet
	271997	*	Gasket, Crankcase Cover,	108	224540		Valvé, Choke
			.005"	121	499220		Carburetor Kit
	271996	•	Gasket, Crankcase Cover,	123	94913		Screw, Elbow Mounting
			.009*	125	498027		Carburetor
13	94622		Screw, Cylinder Head	127		**	Plug, Welch (Sold in Kit
15	94239		Plug, Oil Drain				Only)
16	498971		Crankshaft	130	224539		Valve, Throttle
20	291675	*	Şeal, Oil	131	494379		Shaft, Throttle
22	94624		Screw, Sems, Base	133	494381		Float, Carburetor
			Mounting	137	281165	***	CHARLET FOR DOWN
23	492326		Flywheel	138		***	Washer, Float Bowl
24	222698		Key, Flywheel	141	495097		Shaft, Choke
25	394661		Piston Assembly, Standard	142	497736	**	HOLLIO, OUIDAIOIOI
	004000		Size		497737		Nozzle, Carburetor (High
	394662		Piston Assembly, .010"				Altitude)
	004000		Oversize	146	94196		Key, Timing
	394663		Piston Assembly, .020"	171	281051		Nut, Air Cleaner
	204664		Oversize	186	493496		Elbow, Fuel Pipe
	394664		Piston Assembly, .030" Oversize	187	298049		Line, Fuel (Cut to Suit)
26	391780		Ring Set, Standard Size	188	94627		Screw, Sems
20	392331		Ring Set, Standard Size,	201 209	262767 260871		Link, Governor
	392331		Chrome	216	262766		Spring, Governor
	391781		Ring Set, .010" Oversize	219	490815		Link, Choke Gear, Governor
	391782		Ring Set, .020" Oversize	222	495611		Plate, Governor Control
	391783		Ring Set, .030" Oversize	224	94729		Screw, Hex Head
27	260924		Lock, Piston Pin	227	493935		Lever Assembly, Governor
28	299691		Pin, Piston, Standard Size	230	94927		Washer, Governor Crank
	391286		Pin, Piston, .005" Oversize	232	262785		Spring, Governor Link
29	490348		Rod, Connecting	240	394358		Filter, Fuel
	490469		Rod, Connecting, .020"	265	221535		Clamp, Casing
00	0.4674		Undersize		1		0 - 1 - 1 0 - 1 (404044)
32 33	94671 262246		Screw, Connecting Rod Valve, Exhaust	-	included	ın	Gasket Set (494241)
34	262247		Valve, Intake	**	Induded	in i	Corburator Kit (400220)
35	65906		Intake Exhaust Valve		Included	111	Carburetor Kit (499220)
36	26828		Spring, Valve	***	Included	in I	both Carburetor Kit
37	224502		Guard, Flywheel				
40	221596		Retainer, Intake Valve		(494385)		nd Carburetor Gasket Set
41	292260		Rotocoil, Exhaust Valve		COCFET	′	
42	494553		Retainer, Rotocoil	+	Included	in '	Valve Overhaul Gasket Set
45	262248		Tappet, Valve		HOIGGE		Taito Otoliladi Gashet Oot
46	212897		Gear, Cam	NOTE	All com	ነሪኮ	ent dimensions given in U.S.
50	213819		Carburetor, Elbow				h = 25.4 mm
-						10	=0.7 000

BRIGGS & STRATTON ENGINE-MODEL NUMBER 28R707, TYPE NUMBER 1140-E1

KEY	PART	DECORPTION	KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
284	94903	Screw, Shoulder	741	262932	Gear, Timing
284A	94704	Screw, Hex Head	757	213998	Link, Counterweight
304	496280	Housing, Blower	758	399891	Counterweight Assembly
305	94786	Screw, Hex Head	759	298909	Pin, Counterweight
305A	94881	Screw, Hex	761	94593	Screw, Counterweight
306	224545	Shield, Cylinder	783	280104	Gear
307	94930	Screw, Sems	801	394856	Cap, Drive
308	491490	Cover, Cylinder Head	802	497605	Cap, End
309	497595	Motor, Starter	803	497604	Housing, Starter
310	94003	Thru Bolt	842	270920	* Seal, Cap
311	497608	Brush Assembly	847	496415	Tube Assembly, Oil
333	492341	Armature, Magneto	851	493880	Terminal, Ignition Cable
334	094731	Screw, Sems	869	261463	Seat, Intake Valve
337	802592	Plug, Spark	870	262924	Seat, Exhaust Valve
346	94896	Screw, Hex Head	871	261961	Guide, Exhaust Valve
356	494328	Wire Assembly		231218	Guide, Intake Valve, Brass
358	494241	Gasket Set	872	281361	Cover, Air Cleaner
363	19203	Puller, Flywheel	875	494237	Body, Air Cleaner
383	89838	Wrench, Spark Plug	877	393456	Diode Assembly
445	496894	Cartridge, Air Cleaner	950	94642	Screw, Fuel Bowl
455	221561	Cap, Flywheel	965	94010	Nut, Hex
467	493903	Knob, Air Cleaner	975 077	495933	Bowl, Float
474	393474	Stator, Alternator	977	494385	Carburetor Gasket Set
482 503	93621	Screw, Sems	987 1005	281166 ' 281400	ocal, Illiottie Oliait
503 510	806000 407606	Strap, Starter	1005 1006	281400 224413	Fan, Flywheel
523	497606 495230	Starter Drive Group Dipstick, Oil	1019	491252	Retainer, Fan Label Kit
524	281370	* Seal, Oil	1036		Label, Kit, Emission
525	496113	Tube, Oil Filler	1044	94673	Screw, Hex Head
535	272403	Element, Filter	1090	497607	Retainer, Brush
537		+* O-Ring, Air Cleaner	1091	281364	Cap, Limiter
544	497603	Armature, Starter	1095	498539	Gasket Set, Valve
552	491986	Bushing, Governor Crank	,,,,,		Overhaul
562	94907	Bolt, Governor Lever	2500	28R707-1	140 Replacement Engine
592	231978	Nut, Hex	ÑÑ	496050	Replacement Shortblock
601	93053	Clamp, Fuel Pipe			
614	93306	Pin, Cotter			
615	263080	Retainer	RPM :	Settings:	Low Speed: 1900-2100
616	495157	Crank, Governor		-	High Speed: 3000-3200
634	494453	* Seal, Spring Assembly			• .
635	66538	Elbow, Spark Plug	•	included in	n Gasket Set (494241)
646	224546	Brace, Air Cleaner			
657	94906	Screw, Sems	**	Included in	n Carburetor Kit (499220)
663	94929	Screw, Hex Head			
668	231109	Spacer	***		both Carburetor Kit
	280848	Spacer			and Carburetor Gasket Set
689	262820	Spring, Friction		(494385)	
726	392134	Gear, Ring		والمسامية المسا	Makes Occade and Cookers Cas
727	490324	Cover, Starter	+	incinaéa il	n Valve Overhaul Gasket Set
728	94951	Screw. Torx	NATE	. All	nont dimonologo divon in H.C.
729 720 A	281159	Clip, Lead Wire	NOTE	: All compo	nent dimensions given in U.S. nch = 25.4 mm
129A	225170	Retainer, Wire		AICHES I II	KH = 25.4 IIIII

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





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

For in-home major brand repair service: Call 24 hours a day, 7 days a week

1-800-4-MY-HOME[™] (1-800-469-4663) Para pedir servicio de reparación a domicilio 1-800-676-5811

In Canada for all your service and parts needs call Au Canada pour tout le service ou les pièces 1-800-665-4455

For the repair or replacement parts you need:
Call 6 am - 11 pm CST, 7 days a week
PartsDirect
1-800-366-PART (1-800-366-7278)

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