Owner's Manual



23.0 HP ELECTRIC START 50" MOWER 6 SPEED GARDEN TRACTOR

Model No. 917.275030



- 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

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WARRANTY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT PARTS 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. Warranty service is available free of charge by taking your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts and oil filters.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, including but not limited to, damage caused by towing objects beyond the capability of the riding equipment, impacting objects that bend the frame or crankshaft, or over speeding the engine.
- Repairs necessary because of operator negligence, including but not limited to, electrical and mechanical damage caused by improper storage, failure to use the proper grade and amount of engine oil, failure to keep the deck clear of flammable debris, or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- Engine (fuel system) cleaning or repairs caused by fuel determined to be contaminated or oxidized (stale). In general, fuel should be used within thirty (30) days of its purchase date.
- Riding equipment used for commercial or rental purposes.

LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. Warranty service is available free of charge by taking your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States.

TO LOCATE THE NEAREST SEARS SERVICE CENTER OR TO SCHEDULE IN-HOME WARRANTY SERVICE, SIMPLY CONTACT SEARS AT 1-800-4-MY-HOME

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

IMPORTANT: This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mowerrelated injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.

II. 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.

SAFETY RULES

III. CHILDREN

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

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

IV. SERVIÇE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - -Use only an approved container.
 - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
 - -Never refuel the machine indoors.
 - Never store the machine or fuel container inside where there is an open flame, such as a water heater.

- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.



- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- 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.
- 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.

SAFETY RULES

- 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.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

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

ACAUTION: 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.

ACAUTION: Do not coast down a hill in neutral, you may lose control of the tractor.

ACAUTION: Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Operate only at the lowest possible speed when on a slope. 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.

AWARNING: Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

AWARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

PRODUCT SPECIFICATIONS

GASOLINE CAPACITY	3.5 GALLONS UNLEADED
AND TYPE:	
	SAE 10W30
(API-SF-SJ):	(ABOVE 32°F)
	SAE 5W-30
·	(BELOW 32°F)
OIL CAPACITY:	W/FILTER: 4.5PINTS
	W/O FILTER: 4.0PINTS
SPARK PLUG:	CHAMPION
(GAP: .030")	RC12YC
GROUND SPEE	D LO: HI:
(MPH):	0.7 1.7
	1.4 3.3
	2.3 5.4
REVERS	SE: 0.9 2.1
TIRE	FRONT: 14 PSI
PRESSURE:	REAR: 10 PSI
CHARGING SYSTEM:	15AMPS @ 3600RPM
BATTERY:	AMP/HR: 35
	MIN. CCA: 280
	CASE SIZE:U1R
BLADE BOLT TORQUE:	27-35 FT. LBS

CONGRATULATIONS on your purchase of a new 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 a Sears or other qualified 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 property. Always observe the "SAFETY RULES".

REPAIR AGREEMENT

A Repair 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.

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 th 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 service center (See REPAIR PARTS section of this manual).



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) 9/16" wrench
- (1) Pliers(1) Utility knife
- (1) 1/2" wrench(1) 3/4" socket with
- drive ratchet
- (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

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

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL

- 1. Remove hex bolt, lock washer and large flat washer from steering shaft.
- 2. Position front wheels of the tractor so they are pointing straight forward.
- 3. Slide the steering sleeve over the steering shaft.
- Align tabs and press steering sleeve extension into bottom of steering wheel.
- 5. Position steering wheel so cross bars are horizontal (left to right) and slide onto steering wheel adapter.
- 6. Secure steering wheel to steering shaft with hex bolt, lock washer and large flat washer previously removed. Tighten securely.
- Snap steering wheel insert into center of steering wheel.
- 8. 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

1. Lift hood to raised position. NOTE: 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).



ASSEMBLY

INSTALL SEAT

Adjust seat before tightening adjustment knob.

- 1. Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
- 2. Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
- 3. Place seat on seat pan so head of shoulder bolt is positioned over large slotted hole in pan.
- 4. Push down on seat to engage shoulder bolt in slot and pull seat towards rear of tractor.
- Pivot seat and pan forward and assemble adjustment knob and flat washer loosely. Do not tighten.
- 6. Lower seat into operating position and sit in seat.
- 7. Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- 8. Get off seat without moving its adjusted position.
- 9. Raise seat and tighten adjustment knob securely.



NOTE: You may now roll or drive your tractor off the skid. Follow the appropriate instruction below to remove the tractor from the skid.

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

- 1. Press lift lever plunger and raise attachment lift lever to its highest position.
- 2. Release parking brake by depressing clutch/brake pedal.
- 3. Place gearshift lever in neutral (N) position. Roll tractor forward off skid.
- 4.

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

AWARNING: 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 1. have been completed.
- 2. Check engine oil level and fill fuel tank with gasoline.
- З. Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- 4. Place gear shift lever in neutral (N) position.
- Press lift lever plunger and raise 5. attachment lift lever to its highest position.
- 6. Start the engine. After engine has started, move throttle control to idle position.
- 7. Depress clutch/brake pedal into full "BRAKE" position and hold. Move gearshift lever to 1st gear. Slowly release clutch/brake pedal and
- 8. slowly drive tractor off skid.
- 9. Apply brake to stop tractor, set parking brake and place gearshift lever in neutral position.
- 10. Turn ignition key to "OFF" position. Continue with the instructions that follow.

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INSTALL MOWER AND DRIVE BELT

Be sure tractor is on level surface and mower suspension arms are raised with attachment lift control. Engage parking brake.

- 1. Cut and remove ties securing antisway bar and belts. Swing anti-sway bar to left side of mower deck.
- 2. Slide mower under tractor with deflector sheild to right side of tractor.

IMPORTANT: Check belt for proper routing in all mower pulley grooves. Install belt into electric clutch pulley groove.

- Install one front link in top hole of the L.H. front mower bracket and L.H. front suspension bracket. Retain with two single loop retainer springs as shown.
- Install second front link in R.H. front suspension bracket only and retain with single loop retainer spring as shown.
- 5. Slide right side of mower back and install link in top hole of R.H. front mower bracket. Retain with single loop retainer spring as shown.
- Turn height adjustment knob counterclockwise until it stops.
- 7. Lower mower linkage with attachment lift control.
- Place the suspension arms on inward pointing deck pins. If necessary, rock and raise front of mower to align deck pins with the holes in suspension arms. Retain with double loop retainer springs with loops down as shown.
- 9. Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.

- 10.Turn height adjustment knob clockwise to remove slack from mower
- 11. Raise deck to highest position.
- 12. Assemble gauge wheels as shown using long shoulder bolts, 3/8 washers, and 3/8-16 center locknuts. Tighten securely.
- Adjust gauge wheels before operating mower as shown in the Operation section of this manual.

CHECKTIRE 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 MOWER LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion, mower drive, 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.



✓ 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
- All thes 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.





DANGER, KEEP HANDS AND FEET AWAY



(Automatic Models only)

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KNOWYOURTRACTOR 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 SWITCH: Used to engage the mower blades, or other attachments mounted to your tractor. LIGHT SWITCH: Turns the headlights on and off.

THROTTLE CONTROL: Used to control engine speed.

CLUTCH/BRAKE PEDAL: Used for declutching and braking the tractor and starting the engine. CHOKE CONTROL: Used when starting

a cold engine.

HEIGHT ADJUSTMENT KNOB: Used to adjust the mower cutting height. **GEARSHIFT LEVER:** Selects the speed and direction of the tractor.

RANGESHIFT LEVER: Allows high (H) and low (L) speed for all forward and reverse gears.

ATTACHMENT LIFT LEVER: Used to raise and lower the mower deck or other attachments mounted to your tractor. LIFT LEVER PLUNGER: Used to release attachment lift lever when changing its position.

IGNITION SWITCH: Used for starting and stopping the engine.

AMMETER: Indicates battery charging (+) or discharging (-). PARKING BRAKE: Locks clutch/brake

into the brake position.



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

Push-In to Attachment Clutch Choke "Disengaged" Switch Pull Out To Control 'Engage' Throttle Control "Brake" Ignition Position Key 6 Parking Ŀ Brake "Engaged" Clutch/ Position "Disengaged" Brake Pedal "Drive' Position Gear Shift Height Position Lever Adjustment Knob

STOPPING

MOWER BLADES -

 To stop mower blades, move attachment clutch switch 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 unauthorized 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.

CAUTION: 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 mower performance.

TO USE CHOKE CONTROL

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

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

TO MOVE FORWARD AND BACK-WARD

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.
- 2. Move gearshift and range shift levers to desired position.
- 3. Slowly release clutch/brake pedal to start movement.

IMPORTANT: Bring tractor to a complete stop before shifting or changing gears. Failure to do so will shorten the useful life of your transaxle.

TO ADJUST MOWER CUTTING HEIGHT

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

- Turn knob counterclockwise (γ) to 14 lower cutting height.

The cutting height range is approximately 1-1/2" to 4-1/2". 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 ADJUST GAUGE WHEELS

Gauge wheels are properly adjusted when they are slightly off the ground when mower is at the desired cutting height in operating position. Gauge wheels then keep the deck in proper position to help prevent scalping in most terrain conditions.

NOTE: Adjust gauge wheels with tractor on a flat level surface.

- 1. Adjust mower to desired cutting height.
- Lower mower with lift control. Remove rear retainer spring and clevis pin which secure each gauge wheel.
- 3. Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pins. Gauge wheels should be slightly off the ground.
- Replace retainer springs into clevis pins.



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.

- 1. Select desired height of cut.
- Lower mower with attachment lift control.

3. 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 deflector shield 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. Use the slope guide provided at the back of this manual.

- 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/orake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear and range shift lever to low (L) position. 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 ATTACH-MENTS

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.

BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL

The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.

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

ADD GASOLINE

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. (Use of leaded gasoline will increase carbon and tead 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. **AWARNING:** 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 fo 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.

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.
- 4. 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)
- 7. 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.

MOWINGTIPS

- 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.
- Use the runner on the right side of the mower as a guide. The blade cuts approximately an inch outside the runner.
- 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.





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 property 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

- 1. Check engine oil level.
- 2. Check brake operation.
- 3. Check tire pressure.
- Check operator presence and 4. interlock systems for proper operation.
- 5. Check for loose fasteners,

5 6 7 Not required if equipped with maintenance-free battery Tighten front axle pivot bolt to 35 ft.-fbs. maximum. Do not overtightan,

ç,

LUBRICATION CHART **④ Tie Rod Ball Joints**



- ① SAE 30 or 10w30 motor oil
- ② General Purpose Grease
- ③ Refer to Maintenance "ENGINE" Section
 ④ Spray silicone lubriant (Move Boots to Lubricate)

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

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

- 1. Raise mower to highest position to allow access to blades.
- 2. 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.
- 5. Tighten bolt securely (27-35 Ft. Lbs. torque).

IMPORTANT: Blade bolt is grade 8 heat treated.





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.

- 1. Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- 3. 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. CHECK TRANSAXLE OIL LEVEL

- 1. Block up rear axle securely.
- Remove left rear wheel by removing hub bolts.
- Remove filler plug from transaxle. Oil level must be even with plug threads. If necessary, fill with SAE 30 motor oil, API SF-SJ. Replace filler plug.
- 4. Reassemble wheel to hub.



ENGINE

LUBRICATION

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



Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year.

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

TO CHANGE ENGINE OIL

Determine temperature range expected before oil change. All oil must meet APJ service classification SF-SJ.

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- · Catch oil in a suitable container.
- 1. Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove cap from end of drain valve and install the drain tube onto the fitting.
- Unlock drain valve by pushing upward slightly and turning counterclockwise.
- To open, pull down on the drain valve.
 After oil has drained completely, close and lock the drain valve by pushing upward and turning clockwise until the pin is in the locked position as shown.
- Remove the drain tube and replace the cap onto to the end of the drain valve.
- 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. Insert dipstick into the tube and rest the oil fill cap on the tube. Do not thread the cap onto the tube when taking reading. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.



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.

CLEAN AIR INTAKE/COOLING AREAS

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

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

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

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.

Loosen knob and remove cover.

TO SERVICE PRE-CLEANER

- 2. Slide foam pre-cleaner off cartridge.
- 3. Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth. Allow 4. it to dry.
- Saturate it in engine oil. Wrap it in 5. clean, absorbent cloth and squeeze to remove excess oil.

TO SERVICE CARTRIDGE

· Replace a dirty, bent, or damaged cartridge.

NOTE: Do not wash the paper cartridge or use pressurized air, as this will

- damage the cartridge.
- 6. Remove nut and cartridge plate.
- 7. Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- 8. Check rubber seal for damage and proper position around stud. Replace it necessary.
- 9. Reassemble air cleaner, cartridge plate, and nut.
- 10 Reinstall air cleaner cover and secure by tightening knob.



ENGINE OIL FILTER

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

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.

- 1. With engine cool, remove filter and plug fuel line sections. 2. Place new fuel filter in position in fuel
- line with arrow pointing towards carburetor.
- 3. Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled 4. aasoline.



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 21 engine life.

SERVICE AND ADJUSTMENTS

CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

TRACTOR **TO REMOVE MOWER**

- 1. Place attachment clutch in "DISEN-GAGED" position. 2. Turn height adjustment knob to lowest
- settina.
- 3. Lower mower to its lowest position.
- 4. Remove retainer spring holding antiswaybar to chassis bracket and disengage anti-swaybar from bracket.
- 5. Remove retainer springs from suspension arms at deck and disengage arms from deck.
- Raise attachment lift to its highest position.
- 7. Remove two retainer springs from each front link and remove links.
- Slide mower forward and remove belt 8. from electric clutch pulley.
- Slide mower out from under right side 9. of tractor.

IMPORTANT: If an attachment other than the mower deck is to be mounted on the tractor, remove the front links.

TO INSTALL MOWER

Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.

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" section 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. Measure height from bottom edge of mower to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- 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 3/16".

 Recheck measurements after adjusting.

FRONT-TO-BACK ADJUSTMENT

IMPORTANT: Deck must be level side-toside. 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 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 "F" directly in front of 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.
- · If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower housing, loosen nut "G" on both front links an equal number of turns.
- When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H' against trunnion on both front links.
- To raise front of mower housing, loosen nut "H" from trunnion on both front links. Tighten nut "G" on both front links an equal number of turns.
- When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on both front links.

NOTE: Each full turn of nut "G" will change dim. "F" by approximately 3/8".

Recheck side-to-side adjustment.





BOTH FRONT LINKS MUST BE EQUAL IN LENGTH



TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL

- 1. Park tractor on a level surface. Engage parking brake.
- 2. Remove screws from L.H. mandrel cover and remove cover.
- 3. Roll belt over the top of L.H. mandrel pulley.
- 4. Remove belt from electric clutch pulley.
- 5. Remove belt from idler pulleys.
- 6. Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
- 7. Check primary idler arm and two idlers to see that they rotate freely.
- Be sure spring is securely hooked to 8 primary idler arm and bolt in mower housing.

MOWER DRIVE BELT INSTALLATION

- 9. Install belt in both idlers. Make sure belt is in both belt keepers at the idlers as shown.
- 10. Install new belt onto electric clutch pulley. 11. Roll belt into upper groove of L.H.
- mandrel pulley. 12.Carefully check belt routing making sure belt is in the grooves correctly . and inside belt keepers.
- 13. Reassemble L.H. mandrel cover.



TO REPLACE MOWER BLADE DRIVE BELT

Park the tractor on level surface. Engage parking brake.

- Remove mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove screws from R.H. mandrel cover and remove cover. Unhook spring from bolt on mower housing.
- Carefully roll belt off R.H. mandrel pulley.
- Remove belt from center mandrel pulley, idler pulley, and L.H. mandrel pulley.
- Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.
- 7. Check secondary idler arm and idler to see that they rotate freely.
- 8. Be sure spring is hooked in secondary idler arm and sway-bar bracket.
- 9. Install new belt in lower groove of L.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.
- 10. Roll belt over R.H. mandrel pulley. Make sure belt is in all grooves properly.
- 11. Reconnect spring to bolt in mower housing and reinstall R.H. mandrel cover.
- 12. Reinstall mower to tractor (See "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual).
- Reassemble mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).



TO ADJUST ATTACHMENT CLUTCH

The electric clutch should provide years of service. The clutch has a built-in brake that stops the pulley within 5 seconds. Eventually, the internal brake will wear which may cause the mower blades to not engage, or, to not stop as required. Adjustments should be made by a Sears or other qualified service center.

- 1. Make sure attachment clutch and ignition switches are in "OFF" position.
- Adjust the three nyion locknuts until space between clutch plate and rotor measures .012" at all three slot locations cut in the side of brake plate.

NOTE: After installing a new electric clutch, run tractor at full throttle and engage and disengage electric clutch 10 cycles to wear in clutch plate.



TO ADJUST BRAKE

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

If tractor requires more than six (6) feet stopping distance at high speed in highest gear on a level dry concrete or paved surface, 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 1-3/4", loosen jam nut and tum nut "A" until distance becomes 1-3/4". 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 a Sears or other qualified service center.

With Parking Brake "Engaged"



TO REPLACE MOTION DRIVE BELT

Park the tractor on level surface. Engage parking brake. For ease of service there is a belt installation guide decal on bottom of left footrest. It is not necessary to remove mower.

BELT REMOVAL -

- Engage parking brake (creates slack in belt).
- Remove mower drive belt from electric clutch pulley only (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- Roll motion drive belt off transaxle pulley.
- Roll belt off clutching idler pulleys, then off engine pulley and front V-idler pulley.
- 5. Pull belt out of all belt keepers.

BELT INSTALLATION -

- Place V part of belt into grooves on engine pulley and front V-idler, making sure to route belt inside of belt keepers.
- Put belt coming from V-idler above midspan belt keeper, then onto clutching idler pulleys as shown.
- Make sure V part of belt engages Vidler.
- Place belt around transaxle pulley, beginning at top.
 V part of belt should engage transaxle pulley.
- 5. Place long lower section of belt through loop in midspan belt keeper.
- 6. Check to be sure belt is on proper side of all belt keepers.
- 7. Reinstall mower drive belt onto electric clutch pulley.



TO ADJUST STEERING WHEEL ALIGN-MENT

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

FRONT WHEEL TOE-IN ADJUSTMENT

Front wheel toe-in is required for proper steering operation. Toe-in was set at the factory and adjustment should not be necessary. If parts in the front axle or steering mechanism have been replaced or damaged, check toe-in and adjust if necessary.

TO CHECK TOE-IN -

- 1. Position front wheels straight ahead.
- Measure distance between wheels at front and rear of tires (dimensions "A" and "B").
- Front dimension "A" should be 1/8" to 1/4" less than rear dimension "B".

TO ADJUST TOE-IN -

- Loosen jam nuts at adjustment sleeves on tie rod.
- Adjust tie rod until dimension "A" is 1/8" to 1/4" less than dimension "B".
- 3. Tighten jam nuts securely.

FRONT WHEEL CAMBER

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The front wheel camber is not adjustable on your tractor. If damage has occurred to affect the front wheel camber,contact a Sears or other qualified service center.





TO REMOVE WHEEL FOR REPAIRS

FRONT WHEEL -

- 1. Block up axle securely.
- 2. Remove axle cover, retaining ring and washers to allow wheel removal.
- 3. Repair tire and reassemble.
- Replace washers and snap retaining ring securely in axle groove.
 Replace axle cover.

REAR WHEEL -

- 1. Block rear axle securely.
- Remove five (5) hub bolts to allow wheel removal.
- 3. Repair tire and reassemble. Replace and tighten hub bolts securely.



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

ACAUTION: 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 vehical 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.
- 2. Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- 3. Connect the other end of the BLACK cable to good CHASSIS GROUND, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

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



REPLACING BATTERY

ACAUTION: 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.

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

- 1. Lift hood to raised position.
- 2. Remove terminal guard.
- 3. Disconnect BLACK battery cable then RED battery cable and carefully remove battery from tractor.
- 4. Install new battery with terminals in same position as old battery.
- 5. 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
- 8. Close terminal access doors.
- 9. Close hood.



TO REPLACE HEADLIGHT BULB

1. Raise hood.

- 2. 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 RĚPLACE FUSE

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

TO ADJUST ATTACHMENT LIFT SPRING

- 1. While holding spring bushing with wrench, loosen jam nut.
- Turn adjustment bolt clockwise to extend spring and reduce lift effort for heavier attachments.
- Turn adjustment bolt counterclockwise for lighter attachments.
- Retighten jam nut against spring bushing.

IMPORTANT: Do not adjust for maximum spring tension when using light attachments such as a mower. Adjust lift lever spring to aid in lifting attachment. Do not overpower spring. When removing attachment, always adjust spring tension to its lowest position.



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TO REMOVE HOOD AND GRILL AS-SEMBLY

- 1. Raise hood.
- 2. Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- 4. 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 establishment 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:

- 1. With engine not running, move throttle control lever to fast position.
- Check that speed control lever is against stop screw. If it is not, loosen casing clamp screw and pull throttle cable until lever is against screw. Tighten clamp screw securely.



TO ADJUST CHOKE CONTROL

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

- 1. With engine not running, move choke control (located on dash panel) to full choke position.
- Remove air cleaner cover, filter and cartridge plate to expose carburetor choke (See "AIR FILTER" in the Maintenance section of this manual).
- Choke should be closed. If it is not, loosen casing clamp screw and move choke cable until choke is completely closed. Tighten casing clamp screw securely.
- 4. Reassemble air cleaner.



TO ADJUST CARBURETOR

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

IMPORTANT: Damage to the needles and the seats in carburetor may result if screw is turned in too tight.

PRELIMINARY SETTING -

 Be sure you have a clean air filter, and the throttle control cable is adjusted properly (see "TO ADJUST THROTTLE CONTROL CABLE" in the Service and Adjustments section of this manual).

- With engine off turn idle fuel adjusting needle in (clockwise) closing it finger tight and then turn out (counterclockwise) 1 turn.
- FINAL SETTING -
- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.

NOTE: The high idle is set at the factory and cannot be adjusted.

- Idle speed setting With throttle control lever in slow position, engine should idle at 1200 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- 3. <u>Idle fuel needle setting</u> With throttle control lever in slow position, turn idle fuel adjusting needle **in** (clockwise) until engine speed decreases and then turn **out** (counterclockwise) approximately 3/4 turn to obtain the best low speed performance.
- Recheck idle speed. Readjust if necessary.

ACCELERATION TEST -

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

High speed stop is factory adjusted. Do not adjust-damage may result. **IMPORTANT:** Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact Sears or other qualified service center, 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 Maintenance section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- 3. Lubricate as shown in the Maintenance section of this manual.
- 4. Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- 5. 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 TERMI-NALS" in the Maintenance 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 deposites from forming in essential fuel system parts such as carburetor, fuel hose, or tank during storage. Also, experiance 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 and engine while in storage.

1. 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 Maintenance section of this manual). CYLINDER(S)

- 1. Remove spark plug(s).
- 2. 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.
- 4. 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	LAUGE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start.
	 Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. 	 Replace spark plug. Replace spark plug. Clean/replace air filter. Replace fuel filter. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace
	 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 	fuel filter. 8. Check all wiring. 9. See "To Adjust Carburetor" in Service Adjustments section.
	10. Engine valves out of adjustment.	10. Contact a Sears or other qualified service center.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Drain fuel tank and refill
	 Loose or damaged wiring. Carburetor out of adjustment. 	with fresh gasoline. 6. Check all wiring. 7. See "To Adjust Carburetor" in Service Adjustments section.
	 Engine valves out of adjustment. 	8. Contact a Sears or other qualified service center.
Engine will not turn over	 Clutch/brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. 	 Depress clutch/brake pedal. Disengage attachment clutch. Recharge or replace battery.
	 Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. 	 Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch.
	 Faulty solenoid or starter. Faulty operator presence switch(es). 	 Check/replace solenoid or starter. Contact a Sears or other qualified service center.
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 Recharge or replace battery Clean battery terminals. Check all wiring. Check/replace solenoid or starter.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel. Water in fuel. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Set in "Higher Cut" position/ reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carbure- tor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact a Sears or other qualified service center.
Excessive vibration	 Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). 	 Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.
Engine continues to run when operator leaves seat with with attachment clutch engaged	1. Faulty operator-safety presence control system.	 Check wiring, switches and connections. If not contact a Sears or other qualified service center.
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Mower blades will not rotate	 Obstruction in clutch mechanism. Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. 	 Remove obstruction. Replace mower drive belt. Replace idler pulley. Replace blade mandrel.
Poor grass discharge	 Engine speed too slow. Travel speed too fast. Wet grass. 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. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	down. 10.Replace with blades listed in this manual. 11.Clean around mandrels to
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.
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.

TRACTOR -- MODEL NUMBER 917.275030

SCHEMATIC



REPAIR PARTS

TRACTOR--MODEL NUMBER 917.275030

ELECTRICAL



TRACTOR -- MODEL NUMBER 917.275030

ELECTRICAL

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	PART	
NO.	NO.	DESCRIPTION
1	144927	Battery
2	74760412	Bolt Hex Head 1/4-20 x 3/4
8	7603J	Tray, Battery
10	145211	Bolt 1/4-20 x 7.5 Zinc
11	150109	Hold down Battery Dash Mount
12	145769	Nut Push Nylon 1/4*
16	153664	Switch Interlock Push-In
21	166184	Harness Socket Light W/4152J
22	4152J	Bulb Light
25	150775	Cable, Battery
26	108824X	Fuse
27	73510400	Nut Keps Hex 1/4-20 Unc
28	170697	Cable, Ground
29	160784	Switch, Plunger
30	163968	Switch, Ign
33	140403	Key, Ignition
40	170238	Hamess Ign.
42	154336	Cover, Terminal
45	122822X	Ammeter
50	174652	Switch, PTO
52	141940	Protection Wire Loop
79	163996	Bulbholder Asm. Incan descent
81	109748X	Relay Asm.

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

TRACTOR--MODEL NUMBER 917.275030 CHASSIS AND ENCLOSURES


CHASSIS AND ENCLOSURES

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	PART			PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	175465	Rail, Frame RH	56	154914	Bracket Asm., Susp Chassis Lh
2	175282	Drawbar, Gt	58	175315	Bracket Asm., Fender
4	73680700	Nut, Crownlock Hex 7/16-14UNC	60	17490620	Screw Thdrol. 3/8-16 x 1-1/4
5	163976X428	Dash YTGT 2 Cyl	63	19131614	Washer 13/32 x 1 x 14 Ga.
6	157882	Dash, Lower Vgt One Piece	67	156973	Guide, Belt Gear Drive
7	17720408	Screw, Thd Cut 1/4-20 x 1/2	68	17490508	Screw Thdrol. 5/16-18 x 1/2
8	145166	Support, Battery	70	177679	Belt Keeper VGT Ground Drive
14	175259X558	Hood Asm	84	142992	Stop, Over Center Mower
16	121794X	Cover, Access	85	144911	Bracket, Support Transaxle
17	17000612	Screw	86	74760716	Bolt Fin Hex 7/16-14 UNC x 1
18	174515X558	Grille	88	STD551143	Washer, Lock Hvy Hici Spr 7/16
19	19131312	Washer 13/32x13/16x12 Ga.	90	STD551237	Washer, Lock External Tooth 3/8
20		Bolt, Fin Hex 3/8-16 x 1	91	175464	Rail, Frame Lh
21	STD541437		106	138776	Screw, Thdrol Hex Head Zinc Mwr
23	17060616	Screw 3/8-16 x1.5	122	161464	Screw Hex Wshd 8-18 x 7/8
24		Footrest, RH	130	164863	Screw HWHD Hi-Lo #13-16 x 3/4
28		Footrest, LH	137	74780716	Bolt Fin Hex 7/16-14 x1 Gr. 5
30		Saddle, Sikscr Vgt	138	163975X428	CupholderYTGT
31	161419	Brace, Supt 1-pc VGT Strg	139	171873	Bolt Shoulder 5/16-18 TT
32	161327	Bracket, Pivot Chassis Lh	140	163806	MagnetYTGT
33	161326	Bracket, Pivot Chassis Rh	141	163805	Striker Plate YTGT
34	177018	Plate Asm Engine Chassis	142	161897	Bracket Dash Rh
35	19111116	Washer 11/32x11/16x16 Ga.	144	161900	Bracket Dash Lh
36	17060512	Screw 5/16-18 x 3/4	148	164655	Extrusion Bumper
37	167286X558		150	161237	Duct Heat Hood
39	175278	Bracket, Axle Front	152	177956	Shield Browning
42	72140608	Bolt, Carriage 3/8-16 x 1	153	160568	Lens Asm Headlight Bar
43	136939	Bracket, Spnsn Front Lh	156	17060512	Screw 5/16-18 x 3/4
44	136940	Bracket, Spnsn Front Rh			
45	154913	Bracket Asm., Susp Chassis Rh			
47	17670608	Screw Thdrol. 3/8-16 x 1/2	NOTE	: All compone	ent dimensions given in U.S. inches
50	175476	Bracket, Chassis Front		= 25.4 mm	

GROUND DRIVE

GROUND DRIVE

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KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	9858M1	Key, Woodruff	37	121749X	Washer 25/32 x1-1/4 x 16 Ga
3	7563R	Washer, Thrust, Axle	38	150035	Nyliner
4 5 6 7	17490508	Screw Thdrol 5/16-18 x 3/4	39	74321016	Screw, Fin. #10-24 x 1
5	STD541437	Nut, Crownlock 3/8-16	40	5304J	Actuator, Interlock Switch
3	STD561210	Pin, Cotter	41	73931000	Nut, Centerlock #10-24
	149176	Wheel, Hub Assembly	42	8883A	Cover, Pedal
J .	12000034	Klip, Ring	46	145170	Retainer, Spring
)	140080	Bolt, Hub	47	138228	Clutch Rod
10	142509	Disc, Brake	48	72110612	Bolt, Carr. 3/8-16 x 1-1/2 Gr. 5
1	136927	Yoke, Brake Disc	50	131494	Pulley, Idler, Flat
12	73750800	Nutlock 1/2-20 Unf	51	STD541437	Nut, Crownlock 3/8-16 UNC
13	139419	Washer, Special	52	139123	Pulley, Idler, Grooved
14	138901	Bushing	53	207J	Washer, Hardened
5	STD551037	Washer 13/32x13/16 x 16 Ga.	54	161590	Clutch, Arm Assembly
16	143012	Set, Screw 1/4-28 x 3/4	55	105706X	Bearing, Idler
7	126909X	Spring	56	137153	V-Belt
18	137104	Lever, Brake	57	141756	Bracket, Shift Rod, Hi-Lo
19	136926	Cam, Brake Disc	59	122253X	Shift Rod, Hi-Lo
21	23260412	Screw, Flat Head 1/4-28 x 3/4	60	122268X	Spring Clip, Connecting Link
22	633A109	Gearshift, Lever Assembly	61	137524	Pulley, Transaxle
23	106932X	Knob	62	STD551143	Washer, Lock 7/16
24	136925	Support, Puck Brake	63	74760720	Bolt, Fin Hex 7/16-14 x 1-1/4
25	136923	Puck, Brake Top	64	154752	Shaft, Clutch/Brake Pedal
26	137552	Spring, Return	65	67609	Bolt, Shoulder
27	17490528	Screw, Hex Wsh Thd.	66	140296	Washer, Hardened
		5/16-18 x 1-3/4	67	19131312	Washer, Flat
28	73350600	Nut, Hex Jam 3/8-16	68	5142H	Pin, Roll
9	137213	Brake, Rod	69	136327	Hub, Cover
30	19131616	Washer 13/32 x 1 x 16 Ga.	117	73900600	Nut, Lock Fig. 3/8-16 Unc
34	71673	Cap, Plunger			
35	137648	Rod, Parking Brake	NOTI		ent dimensions given in U.S. Inch
36	149412	Spring, Drive Ground	1 inch = 25,4 mm		

TRACTOR -- MODEL NUMBER 917.275030 STEERING ASSEMBLY



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STEERING ASSEMBLY

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NO.	PART NO.	DESCRIPTION
1		
2	175278	Wheel, Steering Axle Asm., Front
3	6855M	Fitting, Grease
4	161849	Spindle Asm, LH
5	161848	Spindle Asm., RH
6	6266H	Bearing, Race Thrust Harden
7	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
8	12000029	Ring, Klip #T5304-75
9	121232X	Cap, Spindle
10	74781044	Bolt, Fin Hex 5/8-11 x 2-3/4
11	136518	Spacer Bearing Axle Front
12	73901000	Nut, Lock Flange 5/8-11 Unc
13	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
14	STD551137	Washer, Lock Hvy Hici Spr 3/8
15	STD541537	Nut, Lock Center 3/8-24 UNF
16 17	145103	Shaft Asm., Steering
18	137347 137155	Rod Asm., Tie Ball J Ball Vgt (Inc. Key No. 36-40)
19	156011	Draglink, Ball Joint Solid Vgt Support Asm., Steering Vgt
20		Boot, Steering
21	159945	Adapter, Wheel Steering
22	155105	Bushing, Strg. Bik
23	152927	Screw
25	STD523710	Bolt, Fin Hex 3/8-16 x 1 Gr. 5
26	159946X428	
27	3366R	Bearing, Col. Strg.
28	17000612	Screw 3/8-16 x 3/4
29	104239X	Bearing, Flange
30	12000034	Ring, Klip Truarc #5304-75
31	138136	Bushing, Nyliner Snap
32	19111610	Washer 11/32 x 1 x 10 Ga.
33	STD551131	Washer, Lock Hvy Hici Spr 5/16
34	STD523107	Bolt, Hex Hd 5/16-18 x 3/4
35	138059	Gear, Sector Steering
36 37	137156	Tie Rod
38	73360600	Jam Nut RH Thread
39	109850X 73700600	Joint Asm. Ball RH Thread Jam Nut LH Thread
40	109851X	Joint Asm. Ball LH Thread
41	155246	Bracket Switch Interlock VGT 97
42	17490508	Screw Thdrol 5/16-18 x 1/2 Tyt
44	160135X428	
45	19132411	Washer 13/32 x 1-1/20 x 11 Ga.

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

ENGINE



KEY	PART	
NO.	NO. D	ESCRIPTION
1	• • • • • • •	Engine (See Breakdown) Kohler Model No. CV674-75544
2	149723	Muffler
8	121361X	Pulley V-Idler
9	177748	Keeper Asm. Belt Engine
10	175287	Bushing
11	170056	Clutch Electric
12	143996	Pulley Engine VGT Elect Clutch
15	151346	Tank Fuel Rear 3.50 Yt/Gt 96
16	109227X	Pad Spacer
17	106082X	Pad Spacer
18	161493	Cap Asm Fuel W/Gauge
20	177328X428	Control Throttle
21	164863	Screw HWHD Hi-Lo #13-16 x 3/4
22	175441X428	Control Choke
24	STD551237	Washer Ext Tooth 3/8
25	73920600	Nut Keps 3/8 - 24 UNF
26	3645J	Bushing
27	139277	Stem Tank Fuel
28	7834R	FuelLine
29	137280	Spark Arrester Kit
31	145006	Clip Push-In Hinged

KEY	PART	
NO.	NO.	DESCRIPTION
35	10010500	Washer Split
37	123487X	ClampHose
39	17490636	Screw TT 3/8-16 x 2-1/4 UNC
40	17490664	Screw TT 3/8-16 x 4 UNC
41	126197X	Washer 1-1/2 OD x 15/32 ID x .250
42	STD551143	Washer Lock 7/16
43	137937	Bolt Hex 7/16 - 20 X 4 Ga 5
47	175288	Bushing
62	146629	Shleid Heat Muffler
69	24-041-02	Gasket
70	175545	Tube Exhaust LH
71	175546	Tube Exhaust RH
74	162295	Elbow Street Brass
80	M73030800	NutFlange
81	148315	Plug Drain Oil Easy
82	148315	Plug Oil Drain Easy
83	171877	Bolt 5/16-18 UNC x 3/4 W/ Sems
84	17060624	Screw 3/8-16 x 1-1/2

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

SEAT ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	140124	Seat
2	140551	Bracket, Plvot Seat
3	140675	Strap, Fender
4	127018X	Bolt, Shoulder 5/16-18 x .62
5	145006	Clip, Push In, Hinged
6	STD541437	Nut, Crownlock 3/8-16 Unc
7	124181X	Spring, Seat Cprsn
8	171877	Bolt 5/16-18Uncx 3/4 w/Sems
10	174894	Pan, Seat
12	121246X	Bracket, Mounting Switch
13	121248X	Bushing, Snap
14	72050412	Bolt, Carriage 1/4-20 X 1-1/2

KEY NO.	PART NO.	DESCRIPTION
15	121249X	Spacer, Split
16	123740X	Spring, Cprsn
17	123976X	Nut, Lock 1/4 Lge Flg Gr. 5
18	19171912	Washer 17/32x1-3/16x12 Ga.
19	166369	Knob, Seat
20	124238X	Cap, Spring Seat
21	171852	Bolt, Shoulder 5/16-18
22	STD541431	Nut, Crownlock 5/16-18 Unc

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

DECALS



157199X428 177515 177516

KEY	PART		KEY
NO.	NO.	DESCRIPTION	NO.
1	163265	Decal, Dash Panel	13
2	164085	Decal, Dash	14
3	171702	Decal, Hood, RH	15
4	171703	Decal, Hood, LH	16
5	177415	Decal, Hood Side Panel	17
6	133644	Decal, Maintenance	18
7	167166	Decal, Fender	19
8	177416	Decal, Engine	23
9	163204	Decal, Fender, Craftsman	
10	156439	Decal, Fender Danger	
11	4900J	Decal, Clutch/Brake	
12	146047	Decal, V-Belt Drive	
		Schematic	

WHEELS & TIRES



KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap, Valve, Tire
2	65139	Stem, Valve
3	106228X427	Rim Assembly, Front
4	8134H	Tube, Front (Service Item Only)
5	106230X	Tire, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	104757X428	Cap, Axle (Front Wheel Only)
9	105588X	Tire, Rear
10	7154J	Tube, Rear (Service Item Only)
11	106277X428	Rim Assembly, Rear
12	6856M	Fitting, Grease
••	144334	Sealant, Tire (10 oz. Tube)

DESCRIPTION Decal, Blower Housing Decal, V-Belt Schematic Decal, Repl Parts Decal, Dash Amm Eng. Decal, Battery Dnge/Poi Decal, Insert Strg Decal, Battery Reflector, Taillight Decal, Handle Lft Height Adjust (Lift Handle) Pad, Footrest Manual, Owner's (Eng) Manual, Owner's (Span)

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



	PART	
NÔ.	NO.	DESCRIPTION
1	121006X	Rod Asm., Lever
2 3	177535	Shaft Asm., Lift Vgt
	159189	Lever Asm., Lift Rh
4	12000022	E-Ring Truarc #5133-87
5	19292016	Washer 29/32 x 1-1/4 x 16 Ga.
6	71110624	Bolt, Fin Hex 3/8-16 unc x1-1/2
7	175830	Grip, Handle Fluted
8	175831	Button, Plunger
9	122364X	Plunger, Button
10	2876H	Spring 2-1/8"
11	146704	Link Lift
12	163552	Retainer, Spring
13	139868	Arm, Suspension Vgt
14	169865	Bearing
15	STD541437	Nut, Crownlock 3/8-16 Unc
16	674A247	Spring Asm., Assist Lift
18	143363	Bracket, Spring Assist
19	STD551037	Washer 13/32 x 13/16 x 16 Ga.
20	5328J	Bolt, Adjust Spring Assist
21	STD52710	Bolt, Fin Hex 3/8-16 x 1
22	127218	Link, Front
23	STD624008	Retainer, Spring

KEY NO.	PART NO.	DESCRIPTION
24	73350800	Nut, Jam Hex 1/2-13 Unc
25	130171	Trunnion
26	73680800	Nut, Crownlock 1/2-13 Unc
29	150233	Trunnion, Infin Height
30	110807X	Nut, Special
31	19131016	Washer 13/32 x 5/8 x 16 Ga.
32	137150	Spring, Compression Inf Hat
33	STD560907	Pin, Cotter 3/32 x 1/2
34	137167	Rod, Adj Lift
35	138057	Knob, Inf. 3/8-16 Unc
38	155097	Pointer, Height Indicator
39	123935X	Plug, Hole
40	17060620	Screw 5/16-18 x 1
41	73540600	Nut, Crownlock 3/8-24
42	19112410	Washer 11/32 x 1-1/2 x10 Ga.
43	123934X	Scale, Indicator Height
70	145212	Nut Hex Flange Lock
72	110452X	Nut Push Phos & Oil
73	73350600	Nut Hex Jam 3/8-16 UNC

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

MOWER DECK



MOWER DECK

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KEV	PART		KEV	PART	
NO.		DESCRIPTION		NO.	DESCRIPTION
1	156990	Mower Deck Weldment 50	38	156085	Keeper, Bølt idler
2	STD541413	Nut, Crownlock 5/16-18	39	131494	Pulley, Idler Flat
3	72110506	Bolt, Carriage 5/16-18 x 3/4	40	136572	Pulley, Driven
	7631J	Runner, Mower LH	40	STD533107	Bolt, Carriage 5/16-18 Unc x 3/4
4	138457	Bracket Asm., Sway Bar	42 43	136460	Arm, Idler Secondary
5	STD624008	Retainer, Spring	43 44	165723	Spacer, Retainer
5 6 7	130832	Arm Suspension, Rear	44	STD541437	Nut. Crownlock 3/8-16 Unc
8	850857	Bolt 3/8-24 x 1.25 Gr. 8	45 46	74760628	Bolt, Fin Hex 3/8-16 Unc x 1-3/4
0	000007	Patched	40	137200	Cover, Mandrel RH
9	STD551137	Washer, Lock Hvy 3/8	48	137729	Screw, Thd Roll 1/4-20 x 5/8
3	310351137	Unplated	49	136574	Cover, Mandrel LH
10	140296	Washer, Hard Blade Mower	49 50	137272	Arm, Idler Primary
10	140290	Vented	50 51	137273	Spring, Secondary
11	137380		52	139245	
		Blade (3 Required)	o∠ 53	139245	Pulley, Idler V Groove
13 14	137553	Shaft Asm., W/Lower Brg			Shield, Idler
	137152	Housing, Mandrel 50" Vent	54	139573	V-Belt, Mower Primary
15	110485X	Bearing, Ball Mandrel	55 50	144959	V-Belt, Mower Secondary
16	174493	Stripper, Mower Vented	56	138687	Spring, Primary
17	106735X	Rod, Hinge	57	136577	Bar Asm., Wheel Gauge
18	19111016	Washer 11/32 x 5/8 x 16 Ga.	58	133957	Wheel, Gauge
19	105304X	Cap, Sleeve	59	137644	Bolt, Shoulder
20	123713X	Spring, Torsion Deflector	60	139031	Pin, Clevis
21	137607	Bracket, Deflector	61	136573	Bracket, Wheel Gauge
22	110452X	Nut, Push	62	133943	Washer Hardened
23	110509X	Shield, Deflector Mower	63	72110612	Bolt Carriage 3/8-16 x 1-1/2
24	136320	Runner, RH	64	19121414	Washer 3/8 x 3/4 x 14 Ga
25	19111216	Washer 11/32 x 3/4 x 16 Ga.	65	151831	Pulley Idler Flat Mower
27	STD551037	Washer 13/32 x 13/16 x 16 Ga.	66	156009	Keeper, Belt Idler 44/50*
28	132823	Spacer, Spring Stop Idler	67	73930600	Nut, Centerlock 3/8-16
30	157722	Screw Thdrol Rolling Washer	99	72110614	Bolt, Carriage 3/8-16 x 1-3/4 Gr.5
		Head		143651	Mandrel Assembly (Includes
31	137266	Nut, Fig Top Lock Cntr 9/16			Key Nos. 8-10, 13-15, 31 and 33)
32	153535	Pulley, Mandrel		158330	Deck Assembly - Service
33	129963	Washer, Spacer Mower Vented			(Std. Deck - Order Separately All Nose Roller and Gauge
34	72140610	Bolt, Carriage 3/8-16 x 1-1/4			Wheel Components)
35	72110616	Bolt, Carriage 3/8-16 x 2			· ·
36	72110608	Bolt, Carriage 3/8-16 x 1 Gr. 5	NOT	E: All compor	nent dimensions given in U.S.
37	137166	Stiffener, Arm Idler		s 1 inch = 25.	
				EU.	• ••••



TRANSAXLE

TRACTOR--MODEL NUMBER 917.275030

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TRANSAXLE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION		
1	4197B	Axle Shaft	52	8119M	Needle Bearing		
2	12000034	Retaining Ring	53	4220R	Thrust Bearing Race		
3	4199R	Final Drive Gear	54	4209R	3rd Reduction Pinion, Low		
4	4216R	Differential Gear	55	4213R	4th Reduction Gear		
5	4215R	Differential Pinion	56	4442R	3rd Reduction Pinion Spacer		
6	4217R	Differential Carrier	57	4195R	2nd Reduction Gear Shaft		
7	174728	Axle Thrust Washer	58	4214R	Final Drive Pinion		
8	74020652	Bolt, Hex Hd 3/8-24 x 3-1/4	59	4194R	1st Reduction Gear Shaft		
		(1" Thread Length)	60	7528R	1st Reduction Shaft Spacer		
9	7392M	Steel Ball	61	4208R	3rd Reduction Pinion High		
10	137261	Spring Shift Fork Detent	62	4207R	2nd Reduction Gear		
11	4985R	Shift Fork, High-Low Range	63	7398H	Needle Bearing		
12	6266H	Thrust Bearing Race	64	4203R	Low Speed Gear and 2nd		
13	4212R	4th Reduction Pinion			Reduction Pinion Cluster		
14	137125	Shaft, Brake	65	4204R	Reverse Gear		
15	6276H	Snap Ring, Crescent Type	66	2898J	Key, HI-Pro 1/8 x 17/32		
16	633A63	High-Low Range Gears	67	12000033	KlipRing		
17	8118M	Needle Bearing	68	4205R	Intermediate Speed Gear		
18	8740H1	Sintered Iron Bearing	69	4206R	High Speed Gear		
19	122238X	Shift Fork Shaft, High-Low Range	70	1370H	Thrust Bearing Race		
20	4218R	Differential Pinion Spacer	71	633A69	Intermediate and High		
21	6252H1	Differential Pinion Bushing		400400	Speed Cluster Pinions		
22	7810H	Gripco Centerlock Nut 3/8-24	72	139120	Input Shaft		
23	6262H	Shift Fork, R.H.	73	4201R	Low Speed Pinion		
24	7393R	Oil Seal	74 75	12000008 1153R	E-Ring Reverse Idler Gear		
25	992R1	Sintered Iron Bearing	77	6803J	Needle Bearing		
26	139111	Shift Fork Shaft	79	1167R	Sealing Washer		
27	4986R	Shift Fork, L.H.	80	73360700	Nut, Hex, Jam 7/16-20		
28 29	122254X 6269H	Shift Shaft, High-Low Range Oil Seal	81	6270H	Oil Seal		
29 30	5855H	Pressure Relief Valve	82	136984	Reverse Idler Shaft		
31	174731	Gearcase, Reverse Idler	84	5384J	Gearshift Lever, Bent		
ЭI	1/4/51	Shaft and Bearings, R.H.	85	2978J	Gearshift Cap		
		(Includes Key No.'s 17,18,	86	633A85	Gearshift Ball Cover and Pin		
		25, 33, 50, 63, 77 and 82)	87	8739H1	Shift Lever Guide Ball, Køyed		
32	6277H	Dowel Pin	88	4924H	Spring		
33	4225R	Needle Bearing	89	19151516	Washer 15/32 x 15/16 x 16		
34	7396H	Thrust Bearing Race			Gauge		
35	4198F	4th Reduction Gear Shaft	90	110542X	Shift Mechanism Seal		
36	4200FR	4th Reduction Gear Spacer	91	19181511	Washer 9/16 x 15/16 x 12		
37	7395H	Thrust Bearing Race			Gauge		
38	160789	Gate, Lower, Shift	92	75J	Gearshift Gate and		
39	174729	Gearcase and Bearings,			Reinforcement		
		L.H. (Includes Key #'s 18,	93	6274H	Shift Ball Cover Gasket		
		25, 49, 50 (2), 51 and 52)	94	76020412	Cotter Pin 1/8 x 3/4		
40	13320400	Pipe Plug 1/2-14 N.P.T.	95	10040500	Washer, Lock 5/16		
41	17580520	Bolt, Hex 5/16-18 x 1-1/4	96	159783	Screw Hex Washer Head		
45	6271H	Oil Seal		****	Machine		
46	13060200	Pipe Plug 1/4-18 N.P.T.	97	633A109	Gearshift Lever Assembly		
49	4895H	Needle Bearing	98	174742	Transaxle, 6 Speed,		
50	4222FI	Needle Bearing			Complete Assembly		
51	1529R	Needle Bearing	NOT		onent dimensions given in U.S.		

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

TRACTOR -- MODEL NUMBER 917.275030 KOHLER ENGINE-MODEL NUMBER CV674, TYPE NUMBER 75544



KOHLER ENGINE-MODEL NUMBER CV674, TYPE NUMBER 75544

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HEAD/VALVE/BREATHER			CRANKCASE		
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		gasket (Includes 2, 3)	1 2	24-032-01-S	Seal, oil front Crankcase
2 3		Gasket, breather Cover, breather	3	24-294-13-S	(USE: Miniblock 24 782 14) Fitting
4		Screw, hex. flange	4	24-380-13-S	Pin, dowel locating (6)
_		M6x1.0x20 (4)	5	24-067-13-S	Connecting Rod (Std.) (2)
5 6	X-75-23-S	Plug, allen hd. 1/8" Lifter, valve (4)	6	24-067-14-5	Connecting Rod (.25) (2) Piston w/Ring Set (Std.) (2)
7		Kit, valve train (Includes 8,	Ŷ		(Includes 7, 8)
-		11, 12)		24-874-10-S	Piston w/Ring Set (.25) (2)
8 9		Rod, push (4) Gasket, cylinder head (2)		24-8/4-11-5	Piston w/Ring Set (.50) (2) Kit, piston w/ring set (.08)
10		Head assembly, #2 cylinder	7	24-108-08-S	Ring Set (Std.) (2)
11	25-186-01-S	Arm, rocker (4)	•	24-108-09-S	Ring Set (.25) (2)
12		Pivot, rocker arm (4)		24-108-10-S	Ring Set (.50) (2)
13		Screw, hex. flange	8	24-018-01-S	
			9	12-422-09-S	Shim, camshaft (A.R.)
14	24-072-09-S	Stud, cylinder head		12-422-13-S	
		M8x1.25x20, M10x1.5x33,			Shim, camshaft (A.R.)
15	24 469 16 6	105 mm long (8) Washer, flat 8 mm (8)		12-422-08-S	Shim, camshaft (A.R.) Shim, camshaft
16		Nut, hex. flange M8x1.25		12-422-10-5	Shim, camshaft (A.R.)
		(2)		12-422-12-S	Shim, camshaft (A.R.)
17	24-755-74-S	Kit, valve cover - plain	10	24-012-10-S	Camshaft
		(Includes 18, 19)	11	52-139-09-S	Plug, cup
18	24-153-16-S	O-Ring	12	M-545010-S	Screw, hex. flange
19		Screw, shoulder (4)	13	94 019 04 6	M5x0.8x10 (2)
20 21	24-445-01-5	Strap, lifting Valve, exhaust (Std.) (2)	14	24-018-04-S	Retainer, reed (2) Reed, breather (2)
21	24-016-02-S	Valve, exhaust (.25) (2)	13 14 15 16 17	12-153-01-S	O-Ring, lower oil fill tube
22	24-017-01-S	Valve, intake (Std.) (2)	16	24-126-19-S	Bracket, oil fill tube
	24-017-02-S	Valve, intake (.25) (2)	17	12-123-04-S	
23		Seal, valve stem (2)	18	M-545016-S	Screw, hex. flange
24	235011-S	Retainer, spring (4)	4.0	40.450.00.0	M5x0.8x16
25 26	24-089-02-5	Spring, valve (4) Cap, valve spring (4)	19 20	12-153-02-5	O-Ring, upper oil fill tube Dipstick assembly (Includes
27	12 755-03-5	Kit retainer (4)	20	24-030-04-3	21, 22)
28	24-318-67-S	Head assembly, #1 cylinder	21	24-755-46-S	Kit, oil fill cap (Includes 22)
29	24-755-76-S	Kit, valve cover - breather	22	12-153-03-S	O-Ring, dipstick
		(Incl.18, 19, 30)	23	24-018-09-S	Ring, retainer
30	25-313-02-S	Grommet, rubber	24	M-931010-S	Washer, nylon (top)
31	24-755-57-5	Kit, breather separator	25	28-032-09-5	Seal, governor cross shaft Washer (bottom)
32	M-545016-S	Cap, valve spring (4) Kit, retainer (4) Head assembly, #1 cylinder Kit, valve cover - breather (Incl.18, 19, 30) Grommet, rubber Kit, breather separator (Includes 30, 32-35) Screw, hex. flange M5v0 8v16 (2)	27	24-144-33-S	Shaft, governor cross
		M5x0.8x16 (2)			•
33	24-445-02-S	Strap, breathér	NOT	E: All compon	ent dimensions given in U.S.
34	24-126-44-S	Bracket, breather	inche	as 1 inch = 25.4	ent dimensions given in U.S. 4 mm
35	24-112-12-S	separator			
36	24-112-12-3 24-294-06-S	Fitting			
37	24-326-13-5	Hose, breather			
38		Hose, breather			
39		Clamp, hose (2)			



TRACTOR -- MODEL NUMBER 917.275030 KOHLER ENGINE-MODEL NUMBER CV674, TYPE NUMBER 75544

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KOHLER ENGINE-MODEL NUMBER CV674, TYPE NUMBER 75544

IGNITION/CHARGING

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BLOWER HOUSING & BAFFLES

KEY PART NO. NO.

KEY NO.	PART NO.	DESCRIPTION
1	54-755-15-S	Kit, grass screen (Includes 2-4,and 24 113 18-S)
2	M-403025-S	Screw, hex. cap M4x0.7x25 (4)
3	X-25-92-S	Washer, plain 5/16" (4)
4	24-112-04-S	Spacer, grass screen (4)
5	25-086-47-S	Bolt, shoulder (4)
6	24-157-03-S	Fan
7	12-086-14-S	Screw, hex. flange M10x1.5x46
8	12-468-03-S	Washer, plain 3/8"
9	X-42-15-S	Key
10	24-025-04-S	Flywheel
11	25-403-03-S	
12	X-25-92-S	Washer, plain 3/16" (2)
13		Screw, phillips hd. 11-16x7/ 8 (2)
14	236602-5	Connector (3 contact)
15	54-755-09 - S	Kit, 15 amp stator (Includes 24 126 71-S)
16	12-132-06-S	Spark Plug (2)
17	M-548025-S	Screw, hex. cap M5x0.8x25 (2)
18	48-154-02-S	
19	X-25-63-S	Washer, plain 1/4"
20	24-584-01-S	Washer, plain 1/4" Module, ignition (2)
21	M-545020-S	Screw, hex flange M5x0.8x20 (4)
22	235173-S	Clip, cable
NOT	ILLUSTRATED	1
	24-126-71-S	Bracket, stator wire
	X-22-11-S	Washer, lock 1/4"
	24-176-82-S	Hamess, wiring Lead, black (rectreg. 6" - 12 gauge
	24-518-12-S	insulated grip barrel eyelets)
	24-113-18-S	Decal, grass screen
	25-454-03-S	Tie, wire (3)

1	24-027-20-S	Housing, blower (Includes 2-4)
2	24-100-01-S	Nut, plastic (3)
2 3 4 5	25-139-16-S	Plug, button 9/16"
4	24-100-02-S	Nut, plastic (2)
5	M-545020-S	Screw, hex. flange
		M5x0.8x20 (4)
6	M-545016-S	Screw, hex. flange
		M5x0.8x16 (3)
7	M-551016-S	Screw, hex. flange
		M5x0.8x16
8	M-645016-S	Screw, hex. flange
		M6x1.0x16 (6)
9	24-146-16-S	Plate, backing - # 2 side
10	24-146-20-S	
11	24-063-20-S	Baffle, cylinder barrel-# 2
		side
12	24-063-14-S	Baffle, valley - #2 side
13	24-063-58-S	Baffle, cylinder barrel-# 1
		side
14	24-063-23-S	
15	M-545010-S	Screw, hex. flange
		M5x0.8x10 (2)

DESCRIPTION

NOT ILLUSTRATED

24-096-66-S 24-086-06-S			hd.	11-16x3/
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AIR INTAKE/FILTRATION

KEY NO.	PART NO.	DESCRIPTION
1	24-164-06-S	Manifold, intake
2	M-651055-S	Screw, hex. flange M6x1.0x55 (4)
3	24-041-01-S	Gasket, intake manifold (2)
4	24-041-14-S	Gasket, air cleaner base
5	24-094-18-S	Base, air cleaner
6	24-041-13-S	Gasket, fuel spitback cup
3 4 5 6 7 8	24-109-09-S	Cup, fuel spitback
8	24-083-03-S	Element, air cleaner
9	24-083-05-S	Precleaner, element
10	231032-S	Seal, breather
11	24-096-01-S	Cover, inner air cleaner
12	12-100-01-S	Wing Nut
13	24-096-73-S	Cover, air cleaner
14	54-755-01-S	Kit, knob with seal
		(Includes 15 & 16)
15	25-341-03-S	Knob, cover
16	24-153-20-S	O-Ring
17	24-063-51-S	Baffle, spitback cup

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



TRACTOR -- MODEL NUMBER 917.275030 KOHLER ENGINE-MODEL NUMBER CV674, TYPE NUMBER 75544

KOHLER ENGINE-MODEL NUMBER CV674, TYPE NUMBER 75544

STARTING SYSTEM

OIL PAN/LUBRICATION

	(EY 10.	PART NO.	DESCRIPTION	KEY NO.		DESCRIPTION
1	l	M-839080-S	Screw, hex. flange M8x1.25x80 (2)	1	24-199-07-S	Pan, oil assembly (Includes 2-10)
ź	2	25-098-08-S	Starter, solenoid shift (Includes 4-7)	2	M-645025-S	Screw, hex. flange M6x1.0x25 (2)
3	3	M-841080-S		3	M-631005-S	Washer, plain 6 mm (2)
	1 5		Kit, solenoid Kit, pinion drive (Includes	4	24-393-08-S	Oil pump assembly (Includes 5)
			6)	5	24-123-05-S	
6		25-141-05-S		6	24-162-26-S	
	7	25-221-01-S		7		Kit, governor gear w/pin (Includes 8)
I	ENGI	NE CONTROL	S	8	12-380-01-S	Pin, governor regulating
		04 0T		9	52-448-02-S	Tab. locking
		PART		10	12-144-02-5	Shaft, governor gear
	NO.	NO.	DESCRIPTION	11	24-153-08-S	
	1	24 011 02 C	Polt round bood course	12	X-75-32-S	Plug, hex. ctsk. 3/8"
	•	24 211 03-3	Bolt, round head square neck	13 14	24-130-01-3	Nipple, oil filter
	2	24.000 22.5		14	52-050-02-S	Filler, Oli Spal, pil (DTO, and)
÷	3	M-641060-S	Lever, governor Nut, hex. flange M6x1.0	16		Seal, oil (PTO end) Screw, hex. flange
2	í	24-089-01-5	Spring, linkage	FO	24-000-17-0	M8x1.25x45
, ,		25-158-08-S	Bushing, linkage retaining	17	24-086-16-5	Screw, hex. flange
è	5	24-079-04-5	Linkage, throttle	17	24-000-10-0	M8x1.25x45 (9)
-	7	25-158-11-S	Bushing, throttle linkage	18	X-75-10-S	Plug, sg. hd. solid 3/8*
	3	M-545016-S	Screw, hex. flange M5x0.8x16	10	X /0 10-0	N.P.T.F.
- 9	9	M-547050-S	Nut. hex. lock M5x0.8	NOT	E: All compon	ent dimensions given in U.
	10	24-089-03-S	Spring, choke return	inche	s 1 inch = 25.4	4 mm
	11	24-126-56-S	Bracket, control			
	12	M-645016-S	M6x1.0x16 (4)			
	13	12-237-01-S	Clamp, cable (2)			
	14	24-086-43-5	Screw, hex. flange			
		04 000 07 0	M5x0.8x16 (2)			
	15		Lever, throttle actuator			
	16 17	X-20-1-S	Washer, lock 1/4"			
	18	24.469.01 6	Nut, hex. flange M5x0.8			
	19	24-400-01-3	Washer, plain 5.5 mm (3) Spring, governor			
	20	M-446030-S	Nut, hex M4x0.7			
	21	24-090-13-5	Lever, throttle control			
	22	M-545020-S	Screw, hex. flange			
			M5x0.8x20			
	23	24-089-51-S	Spring, throttle limiter			
	24	24-090-05-S	Lever, choke			
	25	41-468-03-S	Washer, spring 1/4*			
	26	M-403025-S	Screw, hex. cap M4x0.7x25			
1	27	24-079-05-S	Linkage, choke			

TRACTOR -- MODEL NUMBER 917.275030 KOHLER ENGINE-MODEL NUMBER CV674, TYPE NUMBER 75544



KOHLER ENGINE-MODEL NUMBER CV674, TYPE NUMBER 75544

CRANKSHAFT

FUEL SYSTEM

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1. 2.	24-014-72-S 52-139-09-S	Crankshaft (Includes 2) Plug, cup	1.	24-853-61-S	(Includes 2-4)
EXHAUST			2. 3.	24-041-15-S 24-053-61	Carburetor assembly (For
KEY NO.	PART NO.	DESCRIPTION			information only not available separately) (Service with Kits 24 757 36-S, 24 757 38-S)
1. 2.		Gasket, exhaust (2) Stud, M8x1.25x33 (4)	4. 5. 6.	M-629095-S M-641060-S	Gasket, air cleaner base Stud, M6x1.0x95 (2) Nut, hex, flange M6x1.0 (2)
 	PA-75544 24 782 14 24 755 108-8	Replacement Engine Miniblock Gasket Set	7. 8. 9. 10.	47-154-01-S 52-353-22-S 25-237-14-S 24-086-12-S	Line, fuel 12" Clamp, hose (6) Screw, hex. cap.
			11. 12. 13. 14. 15.	24-100-01-S 24-353-03-S	M6x1.7x18 (2) Pump, fuel - pulse Nut, plastic (2) Line, fuel 10-5/8" Line, fuel 11-1/2" Filter. fuel
				LLUSTRATED	-

-- 24 757 38-S Kit, gasket repair

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

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