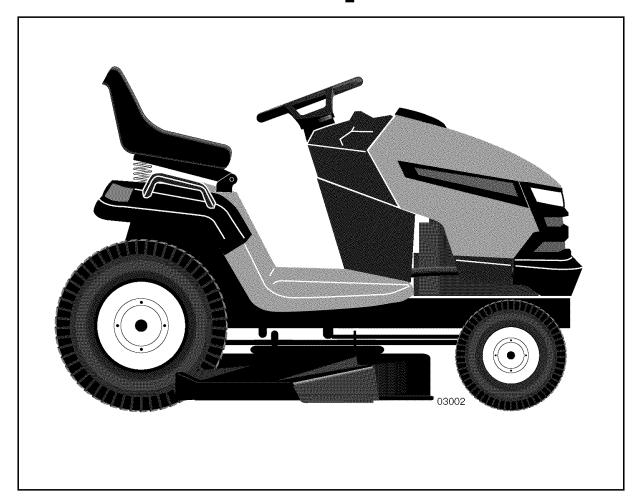
# **Husqvarna**



# 917.279260 (GTH2448T)

**Owner's Manual** 

### SAFETY RULES



**Safe Operation Practices for Ride-On Mowers** 

DANGER: 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.



WARNING: 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.



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



WARNING: 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.



#### WARNING **A**



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.



#### WARNING A



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.

#### I. GENERAL OPERATION

- Read, understand, and follow all instructions on the machine and in the manual before starting.
- Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- 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 blades.
- Be sure the area is clear of bystanders before operating. 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 back-
- Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blades when crossing gravel surfaces.

- Do not operate machine without the entire grass catcher. discharge guard, or other safety devices in place and working.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Disengage blades when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge guard.
- Operate machine only in daylight or good artificial
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadwavs.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Always wear eye protection when operating machine.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Follow the manufacturer's recommendation for wheel weights or counterweights.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

#### II. SLOPE OPERATION

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

- Mow up and down slopes, not across.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Choose a low ground speed so that you will not have to stop or shift while on the slope.
- Do not mow on wet grass. Tires may lose traction. Always keep the machine in gear when going down slopes. Do not shift to neutral and coast downhill.
- Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly straight down the slope.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause the machine to roll over.
- Use extra care while operating machine with grass catchers or other attachments; they can affect the stability of the machine. Do no use on steep slopes.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not mow near drop-offs, ditches, or embankments. The machine could suddenly roll over if a wheel is over the edge or if the edge caves in.

### SAFETY RULES



#### Safe Operation Practices for Ride-On Mowers

#### III. CHILDREN

Tradic 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 in the watchful care of a responsible adult other than the operator.
- Be alert and turn machine off if a child enters the
- Before and while backing, look behind and down for small children.
- Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.

#### IV. TOWING

- Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the hitch point.
- Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes.
- Never allow children or others in or on towed equip-
- On slopes, the weight of the towed equipment may cause loss of traction and loss of control.
- Travel slowly and allow extra distance to stop.

#### V. SERVICE

#### SAFE HANDLING OF GASOLINE

To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.

- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only approved gasoline container.
- Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling.
- Never fuel the machine indoors.
- Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or other appliances.
- Never fill containers inside a vehicle or on a truck or trailer bed with plastic liner. Always place containers on the ground away from your vehicle when filling.
- Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
- If fuel is spilled on clothing, change clothing immedi-
- Never overfill fuel tank. Replace gas cap and tighten securely.

#### **GENERAL SERVICE**

- Never operate machine in a closed area.
- Keep all nuts and bolts tight to be sure the equipment is in safe working 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 and remove any fuelsoaked debris. Allow machine to cool before storing.
- If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.
- Never make any adjustments or repairs with the engine
- Check grass catcher components and the discharge guard frequently and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them. Check brake operation frequently. Adjust and service
- as required.
- Maintain or replace safety and instruction labels, as necessary.











- Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safé machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
- Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.
- Be alert and turn machine off if a child enters the area
- Before and while backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Choose a low ground speed so that you will not have to stop or shift while on the slope.
- Avoid starting, stopping, or turning on a slope. If the 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.

#### PRODUCT SPECIFICATIONS

Gasoline Capacity and type:	4 Gallons Unleaded Regular
Oil Type (API-SG-SL):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
Oil Capacity:	W/ Filter: 64 oz. W/O Filter: 60 oz.
Spark Plug: (Gap: .040")	Champion QC12YC
Ground Speed (MPH):	Forward: 0 - 5.5 Reverse: 0 - 2.4
Charging System:	16 AMPS @ 3600 RPM
Battery:	AMP/HR: 35 MIN. CCA: 280 Case Size: U1R
Blade Bolt Torque:	45-55FT. 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 your nearest authorized servicecenter/department. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

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

#### **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, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

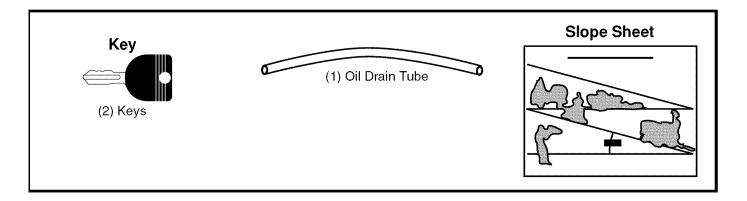
In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.

A spark arrester for the muffler is available through your nearest authorized service center/department (See REPAIR PARTS section of this manual).

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### **UNASSEMBLED PARTS**



### **ASSEMBLY**

Your new tractor has been assembled at the factory with the exception of those parts left unassembled for shipping puposes.

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

# TO REMOVE TRACTOR FROM CARTON

#### **UNPACK CARTON**

- Cut along dashed lines on all four panels of carton.
   Remove end panels and lay side panels flat.
- Remove mower and packing materials.
- Remove protective materials from tractor hood and grille.

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

#### **CHECK BATTERY (See Fig. 1)**

Lift hood to raised position.

**NOTE:** If this battery is put into service after month and year indicated on label (L) (label is 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).

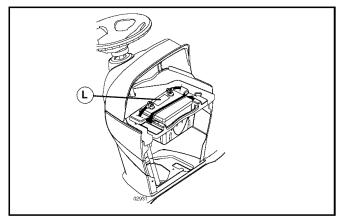


FIG. 1

#### ADJUST SEAT (See Fig. 2)

- Sit in seat.
- Lift up adjustment lever (A) and slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Release lever to lock seat in position.

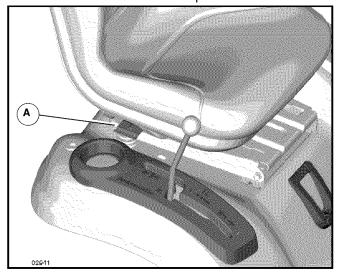


FIG. 2

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

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

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

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

### **ASSEMBLY**

- Place freewheel control in "transmission disengaged position" (See "TO TRANSPORT" in the Operation section of this manual).
- · Roll tractor forward off skid.

# 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 have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position (see "TO TRANSPORT" in Operation section of this manual).
- Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- Place motion control lever in neutral (N) position.
- Press lift lever plunger and raise attachment lift lever to its highest position.
- Remove key from bag and start the engine (see "TO START ENGINE" in the Operation section of this manual). After engine has started, move throttle control to idle (slow) position.
- Release parking brake.
- Slowly move the motion control lever forward and slowly drive tractor off skid.
- Apply brake to stop tractor, set parking brake and place motion control lever in neutral position.
- Turn ignition key to "STOP" position.

Continue with the instructions that follow.

#### **CHECK TIRE PRESSURE**

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

· Reduce tire pressure to PSI shown on tires.

#### **CHECK DECK LEVELNESS**

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

# CHECK FOR PROPER POSITION OF ALL BELTS

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

#### **CHECK BRAKE SYSTEM**

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

#### ✓ CHECKLIST

BEFORE YOU OPERATE YOUR NEW TRACTOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.

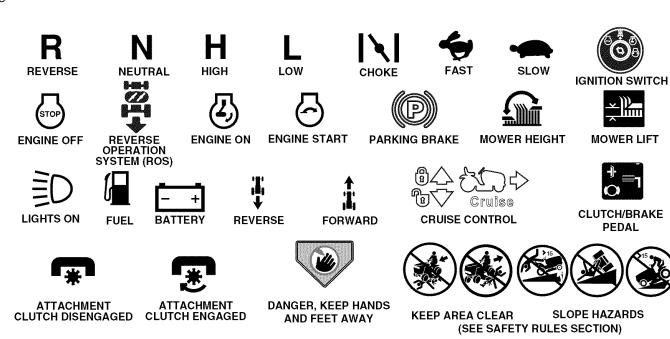
PLEASE REVIEW THE FOLLOWING CHECKLIST:

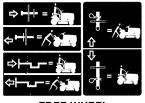
- All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged.
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- Be sure mower deck is properly leveled side-to-side/ front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- ✓ Check wiring. See that all connections are still secure and wires are properly clamped.
- ✓ Before driving tractor, be sure freewheel control is in "transmission engaged" position (see "TO TRANS-PORT" in the Operation section of this manual).

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.
- Be sure Operator Presence System and Reverse Operation System (ROS) are working properly (See the Operation and Maintenance sections in this manual).
- ✓ It is important to purge the transmission before operating your tractor for the first time. Follow proper starting and transmission purging instructions (See "TO START ENGINE" and "PURGE TRANSMISSION" in the Operation section of this manual).

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





**FREE WHEEL** (Automatic Models only)



Failure to follow instructions could result in serious injury or death. The safety alert symbol is used to identify safety information about hazards which can result in death, serious injury and/or property damage.



**DANGER** indicates a hazard which, if not avoided, will result in death or serious injury.

MOWER LIFT

**PEDAL** 



**WARNING** indicates a hazard which, if not avoided, could result in death or serious injury.



**CAUTION** indicates a hazard which, if not avoided, might result in minor or moderate injury.

**CAUTION** when used without the alert symbol, indicates a situation that could result in damage to the tractor and/or engine.



**HOT SURFACES** indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.



FIRE indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.

#### KNOW YOUR TRACTOR

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

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

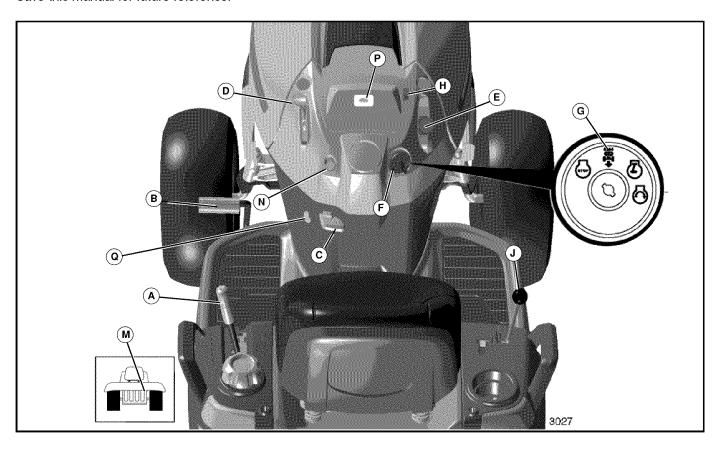


FIG. 3

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

- (A) ATTACHMENT LIFT LEVER Used to raise and lower the mower or other attachments mounted to your tractor.
- **(B) CLUTCH/BRAKE PEDAL** Used for declutching and braking the tractor and starting the engine.
- **(C) PARKING BRAKE** Locks clutch/brake pedal into the brake position.
- **(D) THROTTLE CONTROL** Used to control engine speed.
- **(E) ATTACHMENT CLUTCH SWITCH** Used to engage the mower blades, or other attachments mounted to your tractor.
- **(F) IGNITION SWITCH** Used for starting and stopping the engine.

- (G) REVERSE OPERATION SYSTEM (ROS) "ON" PO-SITION – Allows operation of mower or other powered attachment while in reverse.
- (H) LIGHT SWITCH Turns the headlights on and off.
- (J) MOTION CONTROL LEVER Selects the speed and direction of the tractor.
- **(M) FREEWHEEL CONTROL** Disengages transmission for pushing or slowly towing the tractor with the engine off.
- **(N) CHOKE CONTROL** Used when starting a cold engine.
- **(P) SERVICE REMINDER/HOUR METER** Indicates when service is required for the engine and mower.
- (Q) 12-VOLT POWER PORT Used for 12-volt accessories.



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

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

#### TO SET PARKING BRAKE(See Fig. 4)

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 (B) all the way down and hold.
- Pull parking brake lever (C) up and hold, release pressure from clutch/brake pedal (B), then release parking brake lever. Pedal should remain in brake position. Make sure parking brake will hold tractor secure.

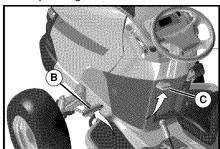
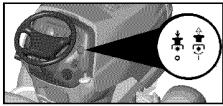


FIG. 4

#### **STOPPING**

#### MOWER BLADES -

• To stop mower blades, push attachment clutch switch in to disengaged position (**O**).



(I) Attachment Clutch Engage Position

(**O**) Disengaged Position

FIG. 5

#### **GROUND DRIVE -**

- To stop ground drive, depress clutch/brake pedal all the way down.
- Move motion control lever (J) to neutral position.

#### ENGINE

 Move throttle control (D) between half and full speed (fast) position.

**NOTE:** Failure to move throttle control between half and full speed (fast) position, before stopping, may cause engine to "backfire".

 Turn ignition key (F) to "STOP" position and remove key. Always remove key when leaving tractor to prevent unauthorized use. Never use choke (N) to stop engine.

**IMPORTANT:** Leaving the ignition switch in any position other than "STOP" will cause the battery to discharge and go 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, and set parking brake before leaving the operator's position.

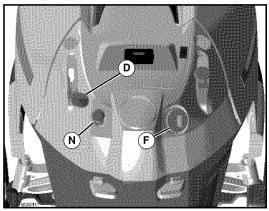


FIG. 6

#### TO USE THROTTLE CONTROL - D (See Fig. 6)

Always operate engine at full speed (fast).

- Operating engine at less than full speed (fast) reduces engines operating efficiency.
- Full speed (fast) offers the best bagging and mower performance.

#### TO USE CHOKE CONTROL - N (See Fig. 6)

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

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

# TO MOVE FORWARD AND BACKWARD (See Fig. 7)

The direction and speed of movement is controlled by the motion control lever. (J)

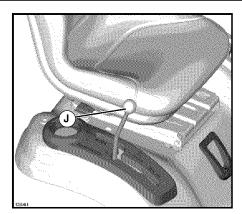


FIG. 7

- Start tractor with motion control lever in neutral (N) position.
- Release parking brake.
- Slowly move motion control lever to desired position.

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

The position of the attachment lift lever (A) determines the cutting height.

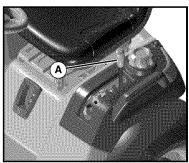


FIG. 8

- Put attachment lift lever in desired cutting height slot.
- The cutting height range is approximately 1" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.
- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first cut relatively high; the second to desired height.

#### TO ADJUST GAUGE WHEELS (See Fig. 9)

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.

- Adjust mower to desired cutting height (See "TO AD-JUST MOWER CUTTING HEIGHT" in this section of manual).
- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole. Tighten securely.
- Repeat for all, installing gauge wheel in same adjustment hole.

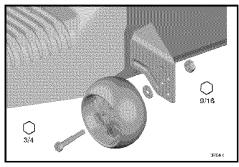


FIG.9

#### 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. You must remain fully and centrally positioned in the seat to prevent the engine from hesitating or cutting off when operating your equipment on rough, rolling terrain or hills.

- 1. Select desired height of cut with attachment lift lever.
- 2. Start mower blades by engaging attachment clutch control.

TO STOP MOWER BLADES -

disengage attachment clutch control.



CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the deflector shield (S) in place.



FIG. 10

#### **REVERSE OPERATION SYSTEM (ROS)**

Your tractor is equipped with a Reverse Operation System (ROS). Any attempt by the operator to travel in the reverse direction with the attachment clutch engaged will shut off the engine unless ignition key is placed in the ROS "ON" position.

**AWARNING:** Backing up with the attachment clutch engaged while mowing is strongly discouraged. Turning the ROS "ON", to allow reverse operation with the attachment clutch engaged, should only be done when the operator decides it is necessary to reposition the machine with the attachment engaged. **Do not mow in reverse unless absolutely necessary**.

#### USING THE REVERSE OPERATION SYSTEM -

Only use if you are certain no children or other bystanders will enter the mowing area.

- Move motion control lever to neutral (N) position.
- With engine running, turn ignition key counterclockwise to ROS "ON" position.
- Look down and behind before and while backing.
- Slowly move motion control lever to reverse (R) position to start movement.
- When use of the ROS is no longer needed, turn the ignition key clockwise to engine "ON" position.

**ROS "ON" POSITION** 

ENGINE "ON" POSITION (NORMAL OPERATING)





#### TO OPERATE ON HILLS



CAUTION: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move motion control lever to neutral (N) position.

**IMPORTANT:** THE MOTION CONTROLLEVER DOES NOT RETURN TO NEUTRAL (N) POSITION WHEN THE CLUTCH/BRAKE PEDAL IS DEPRESSED.

- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

#### TO TRANSPORT (See Figs. 3 and 11)

When pushing or towing your tractor, be sure to disengage transmission by placing freewheel control in freewheeling position. Free wheel control is located at the rear drawbar of tractor.

- Raise attachment lift to highest position with attachment lift control.
- Pull freewheel control out and down into the slot and release so it is held in the disengaged position.

- Do not push or tow tractor at more than two (2) MPH.
- To reengage transmission, reverse above procedure.

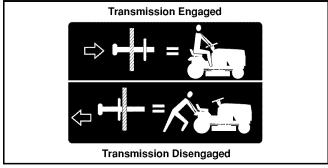


FIG. 11

**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.).

#### SERVICE REMINDER/HOUR METER

Service reminder shows the total number of hours the engine has run and flashes to indicate that the engine or mower needs servicing. When service is required, the service reminder will flash for two hours. To service engine and mower, see the Maintenance section of this manual.

**NOTE**: Service reminder runs when the ignition key is in any position but "STOP". For accurate reading, be sure key remains in the "STOP" position when engine is not running.

#### TOWING CARTS AND OTHER ATTACHMENTS

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

#### 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.

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

#### **ADD GASOLINE**

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



CAUTION: Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

**IMPORTANT:** WHEN OPERATING IN TEMPERATURES BELOW32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

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

#### TO START ENGINE (See Fig. 3)

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.

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place motion control lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to fast position
- Pull choke control out for a cold engine start attempt.
   For a warm engine start attempt the choke control may not be needed.

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

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

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

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

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

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

#### **AUTOMATIC TRANSMISSION WARM UP**

- Before driving the unit in cold weather, the transmission should be warmed up as follows:
  - Be sure the tractor is on level ground.
  - Place the motion control lever in neutral.
     Release the parking brake and let the clutch/brake slowly return to operating position.
  - Allow one minute for transmission to warm up. This
    can be done during the engine warm up period.
- The attachments can be used during the engine warm-up period after the transmission has been warmed up 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.

#### PURGE TRANSMISSION



CAUTION: Never engage or disengage freewheel lever while the engine is running.

To ensure proper operation and performance, it is recommended that the transmission be purged before operating tractor for the first time. This procedure will remove any trapped air inside the transmission which may have developed during shipping of your tractor.

**IMPORTANT:** SHOULD YOUR TRANSMISSION REQUIRE REMOVAL FOR SERVICE OR REPLACEMENT, IT SHOULD BE PURGED AFTER REINSTALLATION BEFORE OPERATING THE TRACTOR.

- Place tractor safely on a level surface that is clear and open - with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TOTRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.



CAUTION: At any time, during step 4, there may be movement of the drive wheels.

- Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.
- Move motion control lever to neutral (N) position. Shutoff engine and set parking brake.
- 6. Engage transmission by placing freewheel control in engaged position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- 8. Slowly move motion control lever forward, after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times.

Your transmission is now purged and now ready for normal operation.

#### **MOWING TIPS**

- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 12).

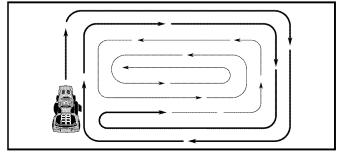


FIG. 12

- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

	MAINTENANCE SCHEDULE	BEFORE EACH USE	EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY SEASON	BEFORE STORAGE
	Check Brake Operation	~	<b>V</b>					
_	Check Tire Pressure	~	<b>'</b>					
Ŕ	Check Operator Presence & ROS Systems	<b>'</b>						
Α	Check for Loose Fasteners					<b>/</b>		<b>V</b>
C	Check/Replace Mower Blades			<b>√</b> <sub>3</sub>				
Ť	Lubrication Chart			<b>V</b>				<b>/</b>
0	Check Battery Level			$\sqrt{4}$			· ·	
R	Clean Battery and Terminals			<b>V</b>				<b>/</b>
	Check Transaxle Cooling			/				
	Check Mower Levelness			-	<b>/</b>			
	Check V-Belts			***********************************	THE STREET PROPERTY OF		***************************************	
	Check Engine Oil Level	<b>V</b>	<b>V</b>					
	Change Engine Oil (with oil filter)				<b>1</b> ,2			<b>'</b>
_	Change Engine Oil (without oil filter)			1,2				<b>/</b>
E	Clean Air Filter			<b>1</b> 2				
G	Clean Air Screen			<b>1</b> 2				
ĭ	Inspect Muffler/Spark Arrester				<b>/</b>			
N	Replace Oil Filter (If equipped)					1,2		
Ε						<b>V</b> 2		
2000	Replace Spark Plug					<b>V</b>	V	
	Replace Air Filter Paper Cartridge					<b>1</b> 2		
	Replace Fuel Filter						<b>V</b>	

- Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions.
- 3 Replace blades more often when mowing in sandy soil.
- 4 Not required if equipped with maintenance-free battery.

#### GENERAL RECOMMENDATIONS

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

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

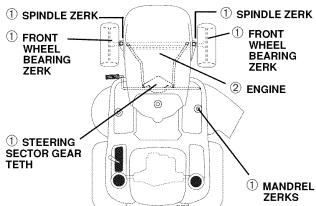
At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

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

#### **BEFORE EACH USE**

- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check operator presence and ROS systems for proper operation.
- Check for loose fasteners.

#### LUBRICATION CHART



- ① General Purpose Grease
- ② Refer to Maintenance "ENGINE" Section

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

#### TRACTOR

Always observe safety rules when performing any maintenance.

#### **BRAKE OPERATION**

If tractor requires more than five (5) feet to stop at highest speed in highest gear on a level, dry concrete or paved surface, then brake must be serviced. (See "TO CHECK BRAKE" in the Service and Adjustments section of this manual).

#### **TIRES**

- Maintain proper air pressure in all tires (See PSI on tires).
- 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 AND REVERSE OPERATION SYSTEM (ROS)

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

 The engine should not start unless the brake pedal is fully depressed, and the attachment clutch control is in the disengaged position.

#### CHECK OPERATOR PRESENCE SYSTEM

- 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.

ROS "ON" Position

Engine "ON" Position (Normal Operating)





#### CHECK REVERSE OPERATION (ROS) SYSTEM

- When the engine is running with the ignition switch in the engine "ON" position and the attachment clutch engaged, any attempt by the operator to shift into reverse should shut off the engine.
- When the engine is running with the ignition switch in the ROS "ON" position and the attachment clutch engaged, any attempt by the operator to shift into reverse should NOT shut off the engine.

#### **BLADE CARE**

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



CAUTION: Use only a replacement blade approved by the manufacturer of your tractor. Using a blade not approved by the manufacturer of your tractor is hazardous, could damage your tractor and void your warranty.

#### **BLADE REMOVAL (See Fig. 13)**

 Raise mower to highest position to allow access to blades.

**NOTE:** Protect your hands with gloves and/or wrap blade with heavy cloth.

- Remove blade bolt by turning counterclockwise.
- Install new blade with stamped "GRASS SIDE" facing the ground.

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

• Install and tighten blade bolt securely (45-55 Ft. Lbs. torque).

**IMPORTANT**: Special blade bolt is heat treated.

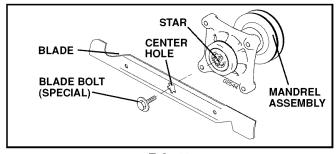


FIG. 13

#### **BATTERY**

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

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

**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.

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.

- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "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

The transmission fan and cooling fins should be kept clean to assure proper cooling.

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot. To prevent possible damage to seals, do not use high pressure water or steam to clean transaxle.

- Inspect cooling fan to be sure fan blades are intact and clean.
- Inspect cooling fins for dirt, grass clippings and other materials. To prevent damage to seals, do not use compressed air or high pressure sprayer to clean cooling fins.

#### TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact your nearest authorized service center/department.

#### **ENGINE**

#### **LUBRICATION**

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

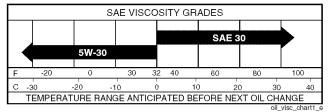


FIG. 14

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

Change the oil after every 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 (See Figs. 14 and 15)

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

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove yellow cap from end of drain valve and install the drain tube onto the fitting.

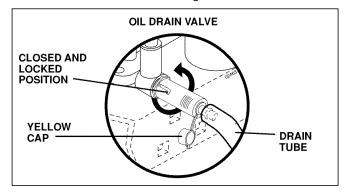


FIG. 15

- Unlock drain valve by pushing inward and turning counterclockwise.
- To open, pull out on the drain valve.
- After oil has drained completely, close and lock the drain valve by pushing inward and turning clockwise until the pin is in the locked position as shown.
- Remove the drain tube and replace the cap onto to the bottom fitting 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. Be sure dipstick cap is tightened securely for accurate 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.

#### **AIR FILTER**

Your engine will not run properly using a dirty air filter. Service air cleaner more often under dusty conditions. See Engine Manual.

#### **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 (See Fig. 16)

The fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

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

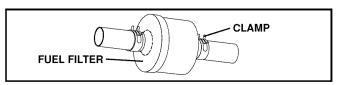


FIG. 16

#### **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 or pressure washer to clean your tractor unless the engine and transmission are covered to keep water out. Water in engine or transmission will shorten the useful life of your tractor. Use compressed air or a leaf blower to remove grass, leaves and trash from tractor and mower.



WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUST-MENTS:

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

#### **TRACTOR**

#### TO REMOVE MOWER (See Fig. 17)

- Place attachment clutch in "DISENGAGED" position.
- Lower attachment lift lever to its lowest position.
- Disengage belt tension rod (K) from lock bracket (L).



CAUTION: Belt tension rod is spring loaded. Have a tight grip on rod and release slowly.

- Remove mower belt from electric clutch pulley (M).
- Disconnect front link (E) from mower remove retainer spring and washer.
- Go to either side of mower and disconnect mower suspension arm (A) from chassis and rear lift link (C) from rear mower bracket (D) - remove retainer springs and washers.
- Go to other side of mower and disconnect the suspension arm and rear lift link.



CAUTION: After rear lift links are disconnected, the attachment lift lever will be spring loaded. Have a tight grip on lift lever when changing position of the lever.

- Turn tractor steering wheel to the left as far as it will go.
- Slide mower out from under right side of tractor.

#### TO INSTALL MOWER (See Figs. 18-22)

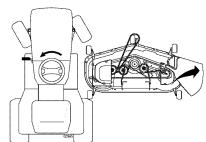
Be sure tractor is on level surface and engage parking brake.

Lower attachment lift lever to it's lowest position.



CAUTION: Lift lever is spring loaded. Have a tight grip on lift lever, lower it slowly and engage in lowest position.

 Turn steering wheel to the left as far as it will go and position mower on right side of tractor with deflector shield to the right.



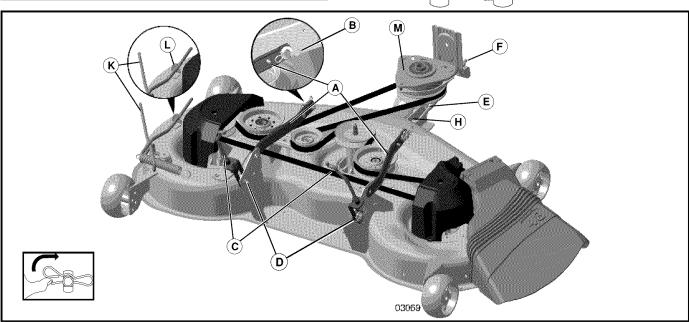
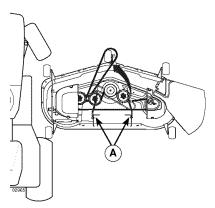


FIG. 17



**NOTE:** Be sure mower side suspension arms (A) are pointing forward before sliding mower under tractor.

- Slide mower under tractor until it is centered under tractor.
- ATTACH MOWER SIDE SUSPENSION ARMS (A) TO CHASSIS - Position hole in arm over pin (B) on outside of tractor chassis and secure with washer and retainer spring.
- Repeat on opposite side of tractor.

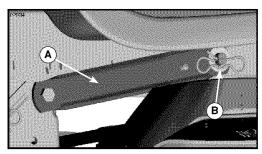


FIG. 18

- ATTACH REAR LIFT LINKS (C) Lift rear corner of mower and position slot in link assembly over pin on rear mower bracket (D) and secure with washer and retainer spring.
- Repeat on opposite side of tractor.

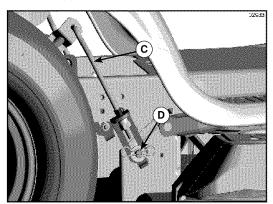


FIG. 19

- Turn steering wheel to position wheels straight forward.
- ATTACH FRONT LINK (E) Work from left side of tractor. Insert rod end of link assembly through front hole in tractor front suspension bracket (F) and secure with retainer spring (G) through hole in link located behind the bracket.
- Insert other end of link (E) into hole in front mower bracket (H) and secure with washer and retainer spring (J).

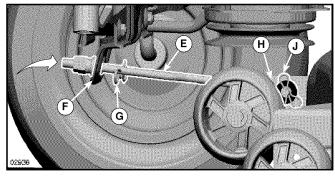


FIG. 20

- Disengage belt tension rod (K) from locking bracket (L).
- Install belt onto engine clutch pulley (M).

**IMPORTANT:** Check belt for proper routing in all mower pulley grooves.

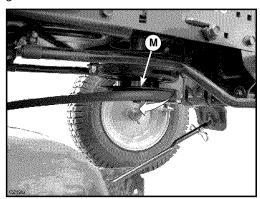


FIG. 21

Engage belt tension rod (K) on locking bracket (L).



CAUTION: Belt tension rod is spring loaded. Have a tight grip on rod and engage slowly.

- Raise attachment lift lever to highest position.
- If necessary, adjust gauge wheels before operating mower as shown in the Operation section of this manual.

#### TO LEVEL MOWER

Make sure tires are properly inflated to the PSI shown on tires. If tires are over or under inflated, it may affect the appearance of your lawn and lead you to think the mower is not adjusted properly.

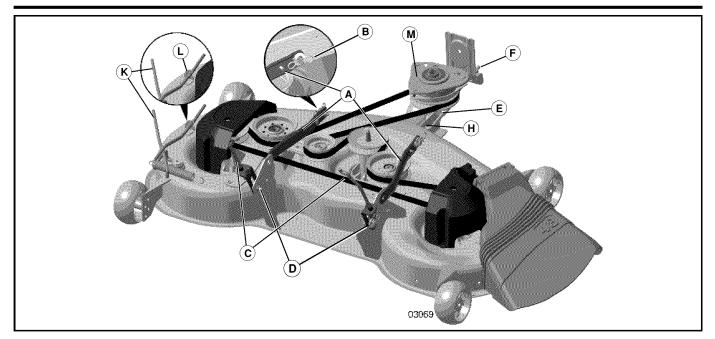


FIG. 22

#### VISUAL SIDE-TO-SIDE ADJUSTMENT (See Fig. 23)

 With all tires properly inflated and if your lawn appears unevenly cut, determine which side of mower is cutting lower.

**NOTE:** As desired, you can raise the low side of mower or lower the high side.

- Go to side of mower you wish to adjust.
- With a 3/4" or adjustable wrench, turn lift link adjustment nut (A) to the left to lower the mower, or, to the right to raise the mower.

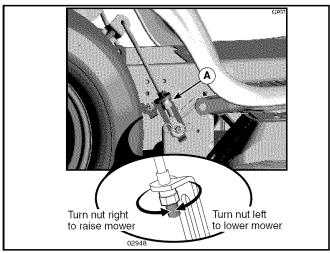


FIG. 23

**NOTE**: Each full turn of adjustment nut will change mower height about 3/16".

 Test your adjustment by mowing some uncut grass and visually checking the appearance. Readjust, if necessary, until you are satisfied with the results.

# PRECISION SIDE-TO-SIDE ADJUSTMENT (See Fig. 24)

 With all tires properly inflated, park tractor on level ground or driveway.



CAUTION: Blades are sharp. Protect your hands with gloves and/or wrap blade with heavy cloth.

- Raise mower to its highest position.
- At both sides of mower, position blade at side and measure the distance (A) from bottom edge of blade to the ground. The distance should be the same on both sides.
- If adjustment is necessary, see steps in Visual Adjustment instructions above.
- Recheck measurements, adjust if necessary until both sides are equal.

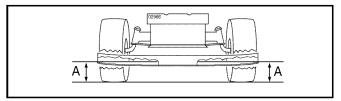


FIG. 24

FRONT-TO-BACK ADJUSTMENT (See Figs. 25 and 26) **IMPORTANT:** Deck must be level side-to-side.

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



**CAUTION:** Blades are sharp. Protect your hands with gloves and/or wrap blade with heavy cloth.

- · Raise mower to highest position.
- Position any blade so the tip is pointing straight forward.
   Measure distance (B) to the ground at front and rear tip of the blade.
- If front tip of blade is not 1/8" to 1/2" lower than the rear tip, go to the front of tractor.
- With an 11/16" or adjustable wrench, loosen jam nut A several turns to clear adjustment nut B.
- With a 3/4" or adjustable wrench, turn front link adjustment nut (B) clockwise (Itighten) to raise the front of mower, or, counterclockwise (loosen) to lower the front mower.

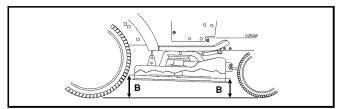


FIG. 25

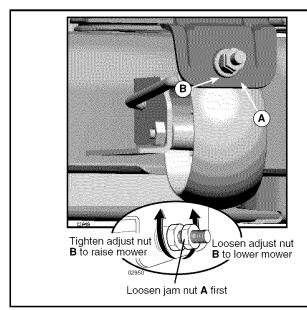


FIG. 26

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

- Recheck measurements, adjust if necessary until front tip of blade is 1/8" to 1/2" lower than the rear tip.
- Hold adjustment nut in position with wrench and tighten jam nut securely against adjustment nut.

# TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 27)

MOWER DRIVE BELT REMOVAL

- Park tractor on a level surface. Engage parking brake.
- · Lower attachment lift lever to its lowest position.
- Disengage belt tension rod (K) from lock bracket (L).



CAUTION: Belt tension rod is spring loaded. Have a firm grip on rod and release slowly.

- Remove screws (P) from mandrel covers (Q) and remove covers.
- Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
- Remove belt from electric clutch pulley (M), both mandrel pulleys (R) and all idler pulleys (S).

#### MOWER DRIVE BELT INSTALLATION

- Install belt around all mandrel pulleys (R) and around idler pulleys (S) as shown.
- Install belt onto electric clutch pulley (M).

**IMPORTANT:** Check belt for proper routing in all mower pulley grooves.

- Reassemble mandrel covers (Q). Securely tighten all screws.
- Engage belt tension rod (K) on locking bracket (L).



CAUTION: Belt tension rod is spring loaded. Have a tight grip on rod and engage slowly.

Raise attachment lift lever to highest position.

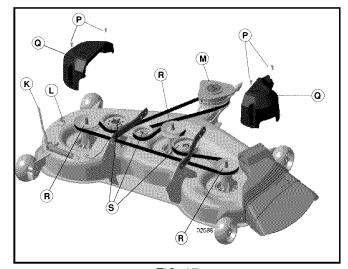


FIG. 27

# TO REPLACE MOTION DRIVE BELT (See Fig. 28)

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

#### **BELT REMOVAL -**

Remove mower (See "TO REMOVE MOWER" in this section of manual).

**NOTE:** Observe entire motion drive belt and position of all belt guides and keepers.

- Disconnect clutch wire harness (A).
- Remove anti-rotation link (B) on right side of tractor.

- Remove belt from stationary idler (C) and clutching idler (D).
- Remove belt from centerspan idler (E).
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades (F).
- Remove belt downward from engine pulley and around electric clutch (G).
- Slide belt toward rear of tractor, off the steering plate (H) and remove from tractor.

#### **BELT INSTALLATION -**

- Install new belt from tractor rear to front, over the steering plate (H) and above clutch brake pedal shaft (J).
- Pull belt toward front of tractor and roll belt around electric clutch and onto engine pulley (G).
- Pull belt toward rear of tractor. Carefully work belt down around transmission cooling fan and onto the input pulley (F). Be sure belt is inside the belt keeper.
- Install belt on centerspan idler (E).
- Install belt through stationary idler (C) and clutching idler (D).
- Reinstall anti-rotation link (B) on right side of tractor.
   Tighten securely.
- Reconnect clutch harness (A).
- Make sure belt is in all pulley grooves and inside all belt guides and keepers.
- Install mower (See "TO INSTALL MOWER" in this section of manual).

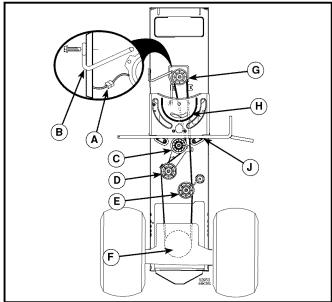


FIG. 28

#### TO CHECK BRAKE

If tractor requires more than five (5) feet to stop at highest speed in highest gear on a level, dry concrete or paved surface, then brake must be serviced.

You may also check brake by:

 Park tractor on a level, dry concrete or paved surface, depress brake pedal all the way down and engage parking brake.  Disengage transmission by placing freewheel control in "transmission disengaged" position. Pull freewheel control out and into the slot and release so it is held in the disengaged position.

The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, then the brake needs to be serviced. Contact a qualified service center.

#### FRONT WHEEL TOE-IN/CAMBER

Your new tractor front wheel toe-in and camber is set at the factory and is normal. The front wheel toe-in and camber are not adjustable. If damage has occurred to affect the factory set front wheel toe-in or camber, contact a qualified service center.

# TO REMOVE WHEEL FOR REPAIRS (See Fig. 31)

- Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
- Repair tire and reassemble.
- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
- Replace washers and snap retaining ring securely in axle groove.
- Replace axle cover.

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

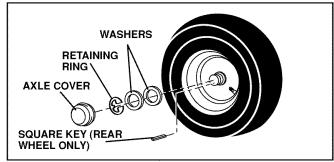


FIG. 31

# TO START ENGINE WITH A WEAK BATTERY (See Fig. 32)



WARNING: 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 SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

#### TO ATTACH JUMPER CABLES -

- Connect one end of the RED cable to the POSITIVE (+) terminal of each battery(A-B), taking care not to short against tractor chassis.
- Connect one end of the BLACK cable to the NEGATIVE
   (-) terminal (C) of fully charged battery.
- Connect the other end of the BLACK cable (D) to good chassis ground, away from fuel tank and battery.

#### TO REMOVE CABLES, REVERSE ORDER -

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

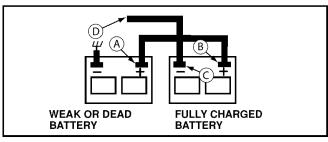


FIG. 32

#### REPLACING BATTERY (See Fig. 33)

**AWARNING:** 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.

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

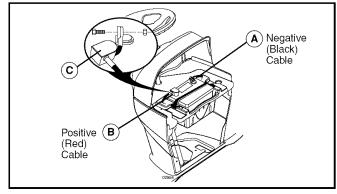


FIG. 33

#### TO REPLACE HEADLIGHT BULB

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

#### INTERLOCKS AND RELAYS

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

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

#### TO REPLACE FUSE

Replace with 20 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

# TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 34)

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

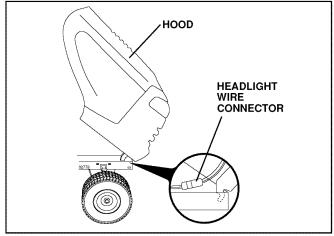


FIG. 34

#### **ENGINE**

#### TO ADJUST THROTTLE CONTROL CABLE

The throttle control has been preset at the factory and adjustment should not be necessary. If adjustment is necessary, see engine manual.

#### TO ADJUST CHOKE CONTROL

The choke control has been preset at the factory and adjustment should not be necessary. If adjustment is necessary, see engne manual.

#### TO ADJUST CARBURETOR

Your carburetor is not adjustable. If your engine does not operate properly due to suspected carburetor problems, take your tractor to an authorized service center for repair and/or adjustment.

### **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.



WARNING: 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).
- Lubricate as shown in the Maintenance section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

#### **BATTERY**

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

#### **ENGINE**

#### **FUEL SYSTEM**

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

- Empty the fuel tank by starting 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 empty 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)

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

#### OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust.
   Rust and/or dirt in your gasoline will cause problems.
- If possible, store your tractor indoors and cover it to give protection from dust and dirt.
- Cover your tractor with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your tractor to rust.

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

# **TROUBLESHOOTING POINTS**

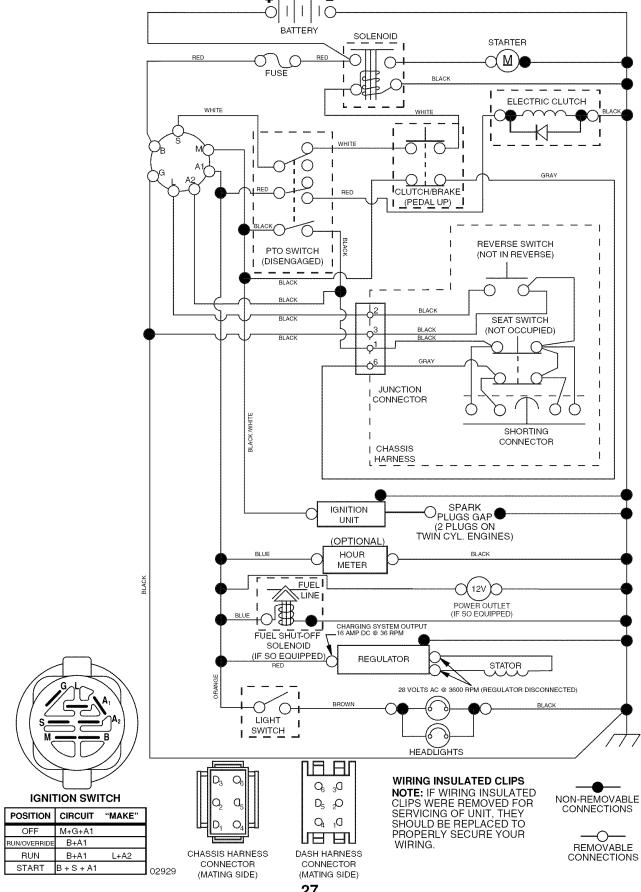
PROBLEM	CAUSE	CORRECTION
Will not start	<ol> <li>Out of fuel.</li> <li>Engine not "CHOKED" properly.</li> <li>Engine flooded.</li> <li>Bad spark plug.</li> <li>Weak or dead battery.</li> <li>Dirty air filter.</li> <li>Dirty fuel filter.</li> <li>Water in fuel.</li> <li>Carburetor out of adjustment.</li>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

# **TROUBLESHOOTING POINTS**

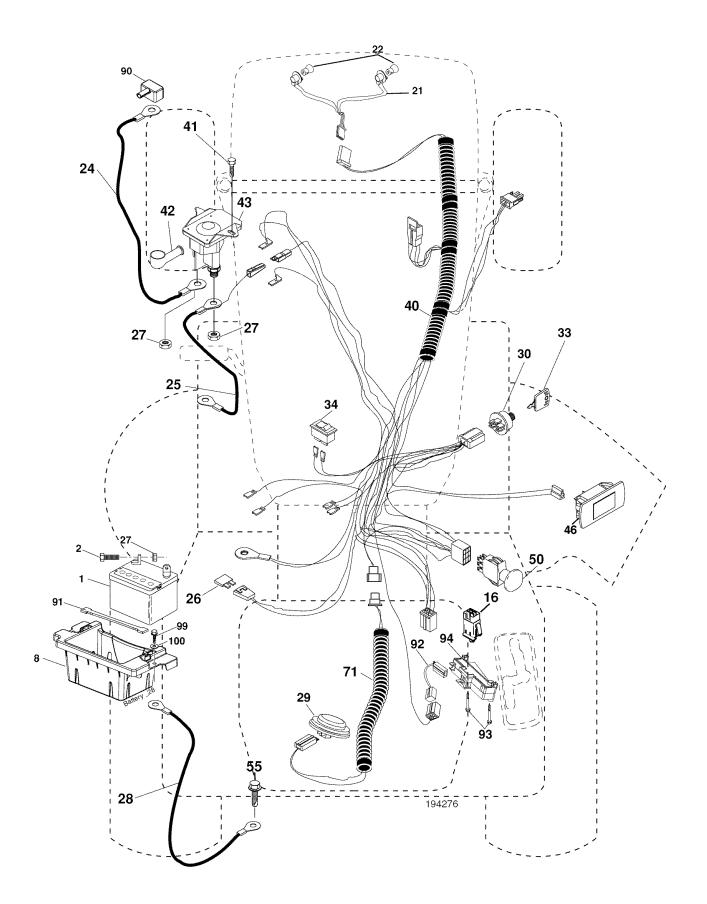
PROBLEM	CAUSE	CORRECTION
Engine dies when tractor is shifted into reverse	Reverse operation system     (ROS) is not "ON" while     mower or other attachment     is engaged.	Turn ignition key to     ROS "ON" position.     See Operation section.
Engine continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact an authorized service center/department.
Poor cut - uneven	<ol> <li>Worn, bent or loose blade.</li> <li>Mower deck not level.</li> <li>Buildup of grass, leaves, and trash under mower.</li> <li>Bent blade mandrel.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol> <li>Replace blade. Tighten blade bolt.</li> <li>Level mower deck.</li> <li>Clean underside of mower housing.</li> <li>Replace blade mandrel.</li> <li>Clean around mandrels to open vent holes.</li> </ol>
Mower blades will not rotate	<ol> <li>Obstruction in clutch mechanism.</li> <li>Worn/damaged mower drive belt.</li> <li>Frozen idler pulley.</li> <li>Frozen blade mandrel.</li> </ol>	<ol> <li>Remove obstruction.</li> <li>Replace mower drive belt.</li> <li>Replace idler pulley.</li> <li>Replace blade mandrel.</li> </ol>
Poor grass discharge	<ol> <li>Engine speed too slow.</li> <li>Travel speed too fast.</li> <li>Wet grass.</li> <li>Mower deck not level.</li> <li>Low/uneven tire air pressure.</li> <li>Worn, bent or loose blade.</li> <li>Buildup of grass, leaves and trash under mower.</li> <li>Mower drive belt worn.</li> <li>Blades improperly installed.</li> <li>Improper blades used.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol> <li>Place throttle control in "FAST" position.</li> <li>Shift to slower speed.</li> <li>Allow grass to dry before mowing.</li> <li>Level mower deck.</li> <li>Check tires for proper air pressure.</li> <li>Replace blade. Tighten blade bolt.</li> <li>Clean underside of mower housing.</li> <li>Replace mower drive belt.</li> <li>Reinstall blades sharp edge down.</li> <li>Replace with blades listed in this manual.</li> <li>Clean around mandrels to open vent holes.</li> </ol>
Headlight(s) not working (if so equipped)	<ol> <li>Light switch is "OFF".</li> <li>Bulb(s) or lamp(s) burned out.</li> <li>Faulty light switch.</li> <li>Loose or damaged wiring.</li> <li>Blown fuse.</li> </ol>	<ol> <li>Turn light switch "ON".</li> <li>Replace bulb(s) or lamp(s).</li> <li>Check/replace light switch.</li> <li>Check wiring and connections.</li> <li>Replace fuse.</li> </ol>
Battery will not charge	Bad battery cell(s).     Poor cable connections.     Faulty regulator (if so equipped).     Faulty alternator.	<ol> <li>Replace battery.</li> <li>Check/clean all connections.</li> <li>Replace regulator.</li> <li>Replace alternator.</li> </ol>
Loss of drive	Freewheel control in "disengaged" position.     Motion drive belt worn, damaged, or broken.     Air trapped in transmission during shipment or servicing.	<ol> <li>Place freewheel control in "engaged" position.</li> <li>Replace motion drive belt.</li> <li>Purge transmission.</li> </ol>
Engine "backfires" when turning engine "OFF"	Engine throttle control not set between half and full speed (fast) position before stopping engine.	Move throttle control between half and full speed (fast) position before stopping engine.

#### TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 **SCHEMATIC**

02929-194276\_Regulated-Tex



TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 ELECTRICAL

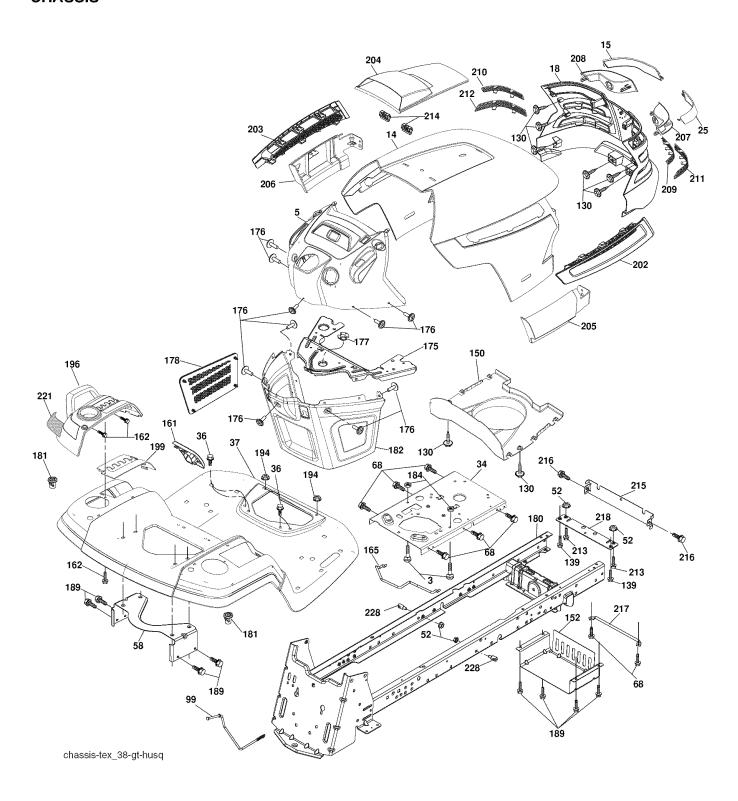


# TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 ELECTRICAL

KEY	PART	
NO.	NO.	DESCRIPTION
1	532 14 49-27	Battery
2	874 76 04-12	Bolt Hex Hd 1/4-20 unc x 3/4
8	532 18 64-91	Battery Box
16	532 17 61-38	Switch Interlock
21		Harness Socket Light
22	532 00 41-52	Bulb, Light # 1156
24		Cable Battery
25		Cable Starter
26	532 17 51-58	
	873 51 04-00	Nut Keps Hex 1/4-20 unc
	532 14 04-01	Key Ign Molded Generic
	532 11 07-12	Switch Light/Reset
	532 19 00-13	Sorow Plactite 10-14 v 2 0
27 28 29 30 33 40 41 42 43 46 50 55 59 71 90 91 92 93 94 99 100	873 51 04-00 532 14 54-91 532 40 15-45 532 19 33-50 532 14 04-01 532 11 07-12 532 19 42-76 871 72 04-08 532 13 15-63 532 19 25-07 532 19 81-38 532 17 46-51 817 49 05-12 532 40 03-03 532 40 11-05 532 40 07-24 532 19 02-70 532 19 66-15 532 19 25-40 532 19 18-34 817 67 04-12	Nut Keps Hex 1/4-20 unc Cable Ground 21" Blk 6 Ga. Switch Seat Switch Ign Key Ign Molded Generic Switch Light/Reset Harness Ign Screw Thd Cut 1/4-20 x 1/2 Cover Terminal Red Solenoid Gauge Hourmeter

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

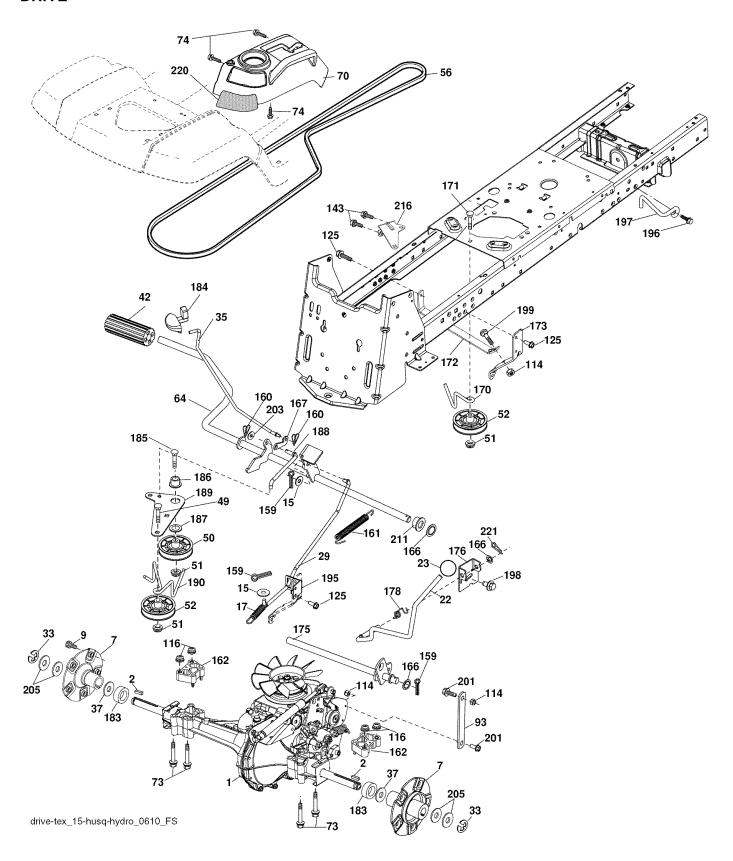
# TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 CHASSIS



# TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 CHASSIS

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
5	532 40 18-23	Dash	185	874 78 05-20	Bolt Fin Hex 5/16-18 unc x 1-1/4
14	532 40 18-24		189		Screw 5/16-18 x 3/4
15	532 19 89-07	Lens LH	194	873 90 05-00	Nut Lock Hex Flange 5/16-18
18	532 40 48-21	Grille	196	532 40 02-99	Console Asm. Deck Lift
25	532 19 89-06		199		Plate Deck Lift
34	532 19 61-25		202		Vent Side Hood RH
36		Screw 5/16-18 x 3/4	203		Vent Side Hood LH
37	532 40 18-25		204		Vent Asm Hood Top
52		Nut Crown Lock 5/16-18	205		Skirt Hood Side RH
58		Bracket Fender	206		Skirt Hood Side LH
68		Screw 5/16-18 x 1/2	207	532 19 71-98	
99		Rod Bypass Asm.	208	532 19 71-99	
130		Screw 10 x 3/4 Single Lead Hex	209		Insert Hex Top RH
150		Duct Heat Hood	210		Insert Hex Top LH
152		Shield Browning/Debris	211		Insert Hex Bottom RH
161		Console Fuel Window	212		Insert Hex Bottom LH
162		Screw Hex Wsh Hi-Lo 1/4 x 1/2	213		Bolt Hex Hd 5/16-18 unc x 3/4
165		Bracket Support Tank	214		Clip Retainer
175 176		Crossmember	215		Cover Chassis Front
176 177		Screw 10-24 x 5/8 Wshd Qdrx	216 217	532 15 65-24	Screw 5/16-18 x 1/2
178		Bushing Steering Cargo Asm. Net	218	532 19 63-95	
179		Plug N/Cruise	221	532 19 89-09	
180	532 40 35-71		228	532 19 51-61	
		Bushing Mtg. Fender Crgo.	220	302 13 31-01	olda i astrici
182	532 19 47-87		NOTE	: All compone	ent dimensions given in U.S. inches
184		Spacer Fender		1 inch = 25	
	.50,00	epassi. siimsi			

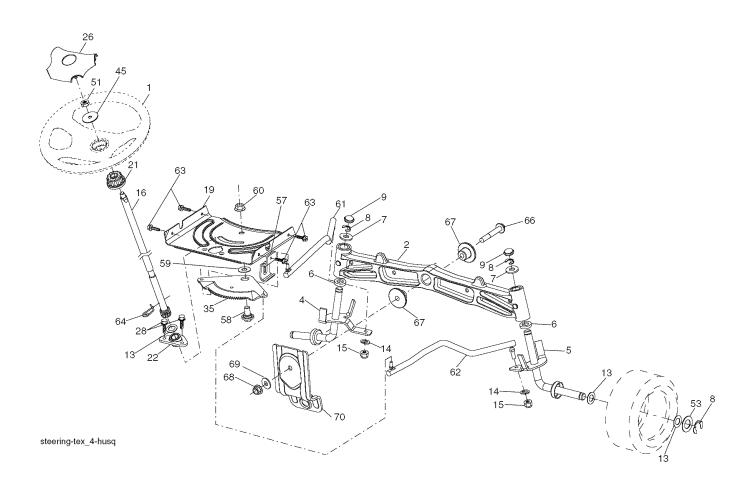
TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 DRIVE



# TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 DRIVE

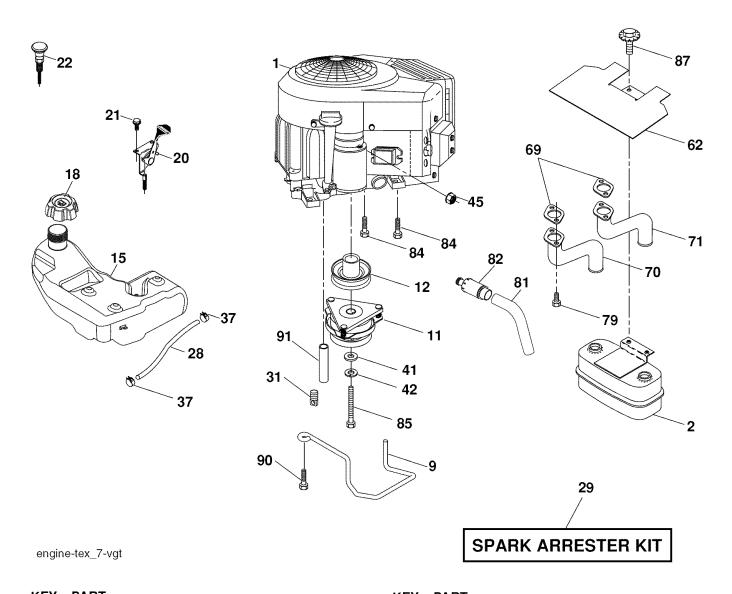
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Transaxle, Hydro 316-0610	167	532 19 62-11	Latch Brake Parking
		(See Breakdown)	170		Keeper Belt Centerspan
2	532 18 62-11	Key 1/4 x 2.5	171	872 11 06-16	
7		Hub Asm. Wheel	172	532 19 76-56	Strap Torque LH
9	532 14 00-80	Bolt Hub Wheel	173		Strap Torque RH
15	819 13 13-16	Washer 13/32 x 13/16 x 16 Ga.	175		Shaft Asm Shift
17	532 19 72-96	Spring, Brake	176	532 19 62-14	Arm, Shift Rod
22	532 19 73-29	Shifter Rod	178	532 19 74-56	Spring Shift
23	532 14 08-45	Knob	183	532 40 04-24	
29	532 19 94-67	Rod, Brake	184		Handle Parking Brake
33	812 00 00-60	Ring E	185		Bolt Rdhd Sqnk 3/8-16 x 2-1/2
35		Roď, Brake, Park	186		Spacer Retainer
37	532 12 17-49		187	819 13 32-10	
42	532 12 48-72	Cover, Foot Pedal	188		Link Clutch Ground Drive
49	872 11 06-14		189		Bellcrank Ground Drive
50	532 19 43-27	Pulley Idler Flat	190		Keeper Bellcrank Ground Dr.
51		Lock Nut 3/8-16	195		Bracket Rod Brake
52	532 19 43-26	Idler V-Groove 910" Offset	196		Screw 3/8-16 x 1
56	532 14 02-18	V-Belt, Drive	197		Bracket Clutch Anti-Rotation
64	532 19 62-00	Shaft Asm. Pedal Brake Control	198		Screw 7/16-14 x 7/8 Flghd
70	532 40 02-98	Control Asm.	199		Bolt Rdhd Sqnk 5/16-18 unc x 1
73	874 49 05-60	Bolt Hex Flghd 5/16-18 x 3.75	201		Bolt Shoulder 5/16-18 unc
74		Screw 1/4 x 1/2	203		Washer 11/32 x 11/16 x 16 Ga.
93	532 19 82-54	Link Shift	205	532 12 17-48	
114	873 80 05-00	Nut Lock Hex w/Insert 5/16-18 unc	211	532 19 62-12	
116	873 90 05-00	Nut Lock Hex Flange 5/16-18	216		Bracket Pulley Idler
125		Screw 5/16-18 x 3/4	220		Reflector RH
143	817 49 05-08	Screw Thdrol 5/16-18 x 1/2	221	532 40 31-87	Retainer Spring Clip Handle
159	876 02 04-12	Pin Cotter 1/8 x 3/4			
160	532 16 94-84	Retainer Clip			
161		Spring, Return, Clutch	NOT	E. Alloomnon	ant dimensione given in LLC inches
162	532 19 57-85	Spacer Trans.	NOTI	all compone:=: All compone .1 inch = 25	ent dimensions given in U.S. inches
166		Nut Push .625		1 111011 = 25.	4 111111

# TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 STEERING ASSEMBLY



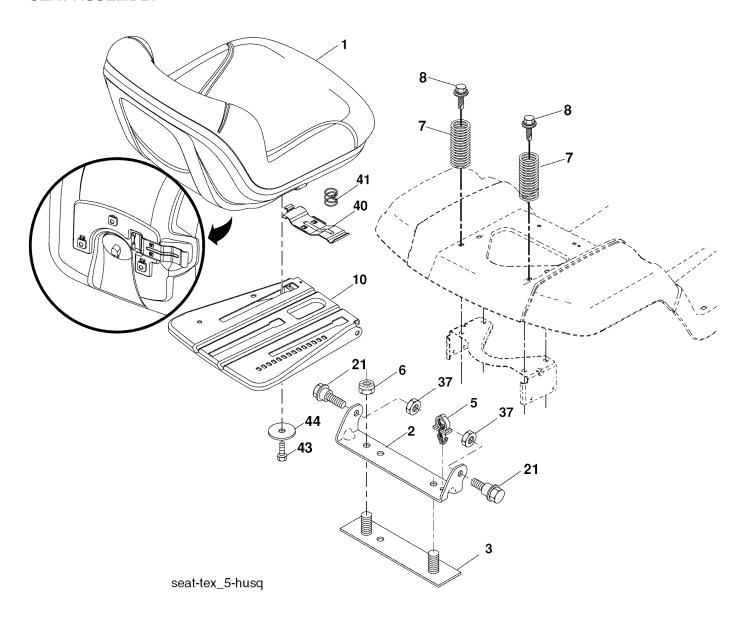
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	532 19 39-43	Wheel, Steering	51	873 94 08-00	Nut Hex Jam Toplock 1/2-20 unf
2		Axle Asm., Front	53		Washer Hardened .793 x 1.637 x
4		Spindle Asm., LH			.060
5		Spindle Asm., RH	57	532 19 72-46	Bracket Upstop
6	532 12 49-31	Bearing, Race Thrust Harden	58		Bolt Shoulder Sector Pivot CFM
7		Washer 25/32 x 1-5/8 x 16 Ga.	59	532 19 47-48	Washer Thrust Sector Steering
8	812 00 00-29	Ring, Klip #T5304-75	60	873 97 10-00	Nut Flange Lock 5/8-11
9	532 12 12-32	Cap, Spindle	61	532 19 47-40	Draglink ĽH
13		Washer 25/32 x 1-1/4 x 16 Ga.	62	532 19 47-41	Draglink, RH
14	810 04 06-00	Washer, Lock Hvy Hlcl Spr 3/8	63	817 00 05-12	Screw 5/16-18 x 3/4
15		Nut, Crown Lock 3/8-24 unf	64		Retainer Clip Spring Steering
16	532 19 47-46	Shaft Steering	66	871 02 07-48	Bolt Hex Fghd 7/16-14 x 3 Serr
19	532 19 47-29	Plate Steering	67		Bushing PM Front Axle
21	532 18 67-37	Adapter, Wheel Steering	68	873 90 07-00	Nut Lock Flange 7/16-14 Gr. 5
22	532 19 48-45	Bushing, Strg. Blk	69	532 19 91-62	Washer 1.5 x .505 x .118
26	532 19 36-52	Insert, Wheel Steering	70	532 19 61-97	Bracket Deck Susp. Front
28		Screw 3/8-16 x 3/4			
35	532 19 47-32	Gear, Sector Plate	NOTE	: All compon	ent dimensions given in U.S. inches
45	819 18 38-12	Washer 9/16 x 2-3/8 x 12 Ga.		1 inch = 25.	

# TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 ENGINE



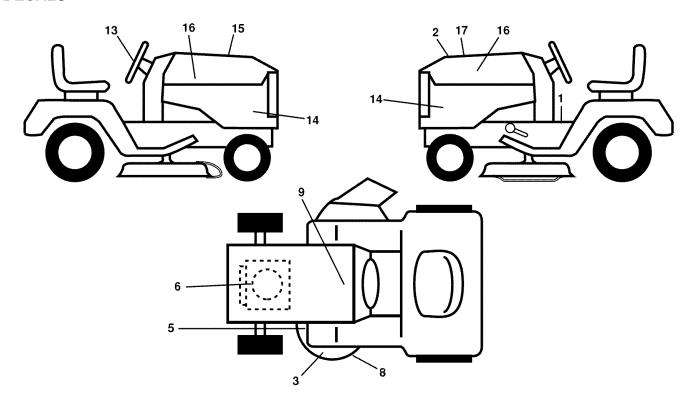
KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1		Engine Briggs Model No. 445677	45		Nut Keps Hex 1/4-20 unc
		0476-E1 (See Breakdown)	62	532 14 66-29	Shield Heat Muffler
2	532 14 97-23	Muffler	69	532 16 53-91	Gasket
9	532 19 43-19	Keeper Belt Engine	70	532 15 99-55	Tube Exhaust LH
11	532 17 93-35	Clutch Electric	71	532 16 05-89	Tube Exhaust RH
12	532 40 24-63	Pulley Engine	79	532 18 39-06	Screw Socket Head 5/16-18 x 1
15	532 19 34-99	Tank Fuel 4.0	81	532 14 84-56	Tube Drain Oil Easy
18	532 19 42-67	Cap Asm	82		Plug Drain Oil
20	532 17 83-85	Control Throttle	84	817 06 06-20	Screw 3/8-16 x 1-1/4
21	532 19 16-11	Screw 10 x 3/4 Single Lead Hex	85	532 17 99-53	Bolt Hex 7/16-20 x 3.75 Gr. 5
22	532 19 15-96	Control Choke	87	532 19 82-39	Bolt 5/16-18 unc x 1 w/Sems
28	532 40 11-35	Fuel Line	90	817 00 06-16	Screw 3/8-16 x 1
29	532 13 71-80	Spark Arrester Kit	91	532 18 74-95	Bushing
31	532 14 50-06	Clip Push-In			<b>U</b>
37	532 12 34-87	Clamp Hose	NOTE	: All compon	ent dimensions given in U.S. inches
41	532 12 61-97	Washer 1-1/2 OD x 15/32 ID x .250		1 inch = 25.	
42	810 04 07-00	Washer Lock 7/16			

# TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 SEAT ASSEMBLY



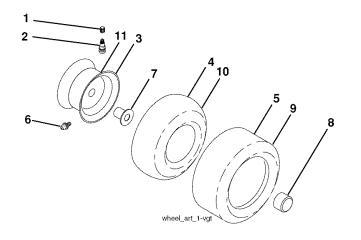
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	532 19 75-26	Seat	37	873 80 05-00	Nut, Lock 5/16-18 unc
2	532 18 01-66	Bracket Pivot Fender	40	532 19 76-61	Handle Slide Seat
3	532 14 06-75	Strap, Asm Fender	41	532 19 82-00	Spring Latch Seat
5	532 14 50-06	Clip, Push In, Hinged	43	874 76 06-12	Bolt Fin Hex 3/8-16 unc x 3/4
6	873 80 06-00	Nut, Lock W/lns. 3/8-16 unc	44	819 13 38-12	Washer 13/32 x 2-3/8 x 12 Ga.
7	532 12 41-81	Spring, Seat Cprsn			
8	532 17 18-77	Bolt 5/16-18 uncx 3/4 w/Sems	NATE	- 411	
10	532 19 69-77	Pan, Seat	NOTE		ent dimensions given in U.S. inches
21	532 17 18-52	Bolt, Shoulder 5/16-18		1 inch = 25.	4 mm

TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	532 19 91-14	Decal, Operator's	14	532 40 37-99	Decal, Panel Side
2		Decal, Hood Insert	15		Decal, Cust. Resp.
3	532 17 05-63	Decal, Warning	16	532 40 28-32	Decal, Hood Logo
5	532 17 85-02	Decal, Caution	17	532 40 20-26	Decal, Replacement
6	532 19 16-52	Decal, Eng. HP		532 16 69-60	Decal, Bypass
8		Decal, Mower Sch.		532 40 17-71	Pad, Footrest, LH
9	532 14 50-05	Decal, Battery Dnge/Poi			Pad, Footrest, RH
13	532 40 44-84	Decal, Steering Whl			Manual, Owner's (Eng)
		<del>-</del>		532 40 43-98	Manual, Owner's (Fr)

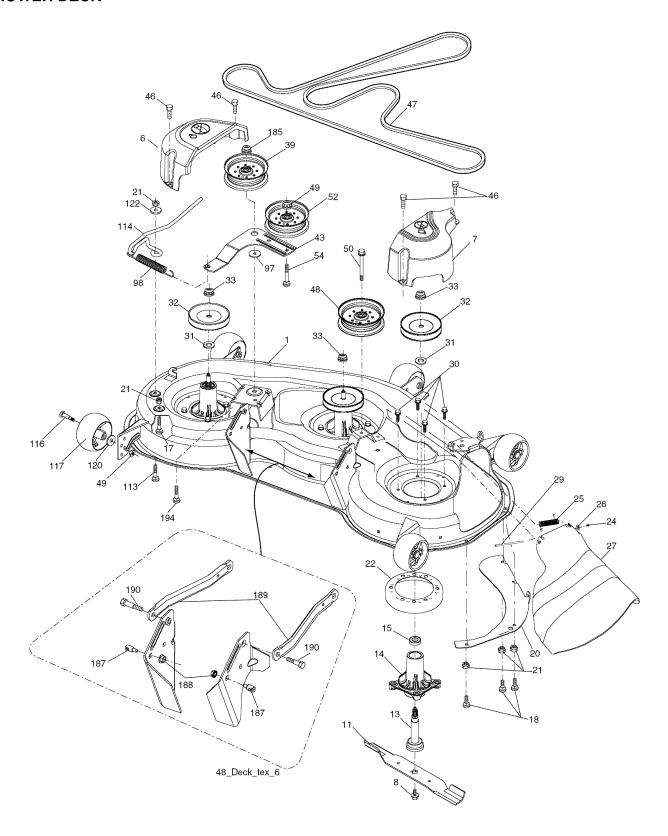
### WHEELS AND TIRES



KEY	PART	
NO.	NO.	DESCRIPTION
1	532 05 91-92	Cap, Valve, Tire
2	532 06 51-39	Stem, Valve
3		Rim Assembly, Front
4	532 05 99-04	Tube, Front (Service Item Only)
5	532 10 62-30	Tire, Front
6	532 12 49-57	Fitting, Grease (Front Wheel Only)
7	532 12 49-59	Bearing, Flange (Front Wheel Only)
8	532 17 50-39	Cap, Axle (Front Wheel Only)
9	532 18 47-08	Tire, Rear
10	532 12 49-26	Tube, Rear (Service Item Only)
11	532 40 17-82	Rim Assembly, Rear
	532 14 43-34	Sealant, Tire (10 oz. Tube)

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

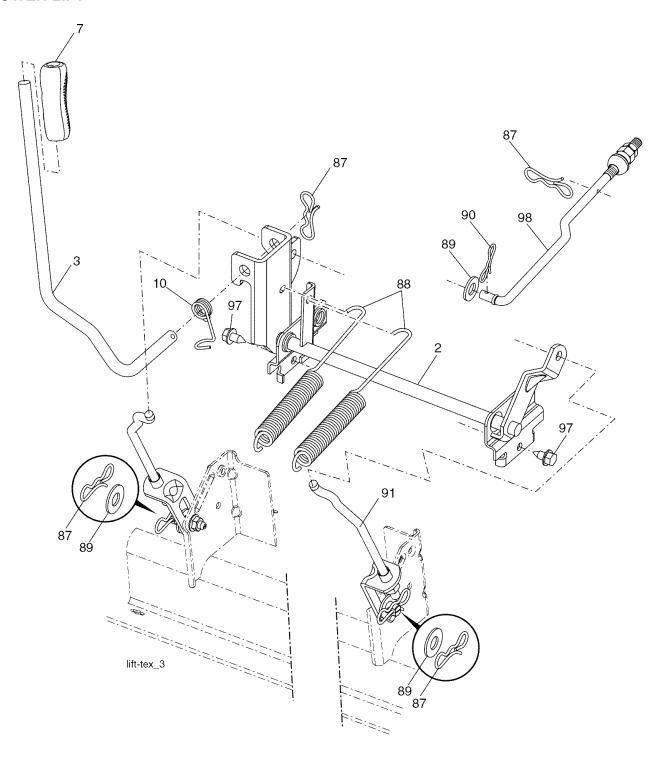
TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 MOWER DECK



# TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 MOWER DECK

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	532 40 35-82	Deck Weldment Mower	48	532 17 79-68	Pulley Idler Clutching
6	532 19 72-48	Cover Mandrel LH	49		Nut, Lock Flg. 3/8-16 unc
7	532 19 91-02	Cover Mandrel RH	50		Bolt Carriage 3/8-16 x 1-1/2 Gr. 5
8	532 17 43-65	Bolt 7/16 Asm. Blade	52	532 19 61-06	
11	532 18 00-54	Blade High Lift	54		Screw 3/8-16 x 2-1/4
13		Shaft Asm. w/Lower Bearing	97	532 17 85-15	Washer Hardened
14	532 18 72-81	Housing, Mandrel	98	532 19 61-05	Spring Drive
15		Bearing, Ball, Mandrel	113	872 11 05-08	Bolt Rdhd Sqnk 5/16-18 x 3/4
17		Bolt Carriage 5/16-18 x 5/8	114	532 19 74-51	Rod Tension Relief
18	872 14 05-05	Bolt RdHd 5/16-18 unc x 5/8	116	532 19 34-06	Bolt, Shoulder
20		Baffle Vortex Mower	117	532 17 48-73	Gauge Wheel
21		Nut, Crownlock 5/16-18 unc	120		Washer 13/32 x 1-1/4 x 12 Ga.
22	532 17 44-93	Stripper Mandrel Deck	122	532 18 75-57	Bushing Tension Relief
24	532 10 53-04		185	873 90 07-00	Nut Lock Flange 7/16-14 Gr. 5
25		Spring, Torsion	187	532 19 51-61	Stud Fastener w/"D" Anti-Rotation
26	532 11 04-52		188		Nut Lock Hex Flange
27		Deflector Shield	189	532 19 51-85	Arm Susp. Mower Rear
29	532 13 14-91		190	532 19 65-39	Bolt Shoulder
30		Screw, Thdroll Washer Head	194	872 14 07-16	Bolt Carr Sqnk 7/16-24 x 2
31		Washer, Spacer Mower Vented		532 18 72-92	Mandrel Asm. Service (Includes
32		Pulley, Mandrel			Key Nos. 13-15 and 33)
33		Nut, Flg. Top Lock		532 40 12-38	Replacement Mower, Complete
39		Pulley, Idler, Stationary LH			
43	532 19 60-65				
46		Screw, Thdroll. 1/4-20 x 5/8	NOTE		ent dimensions given in U.S. inches
47	532 19 72-42	Belt Deck Drive		1 inch = $25.4$	4 mm

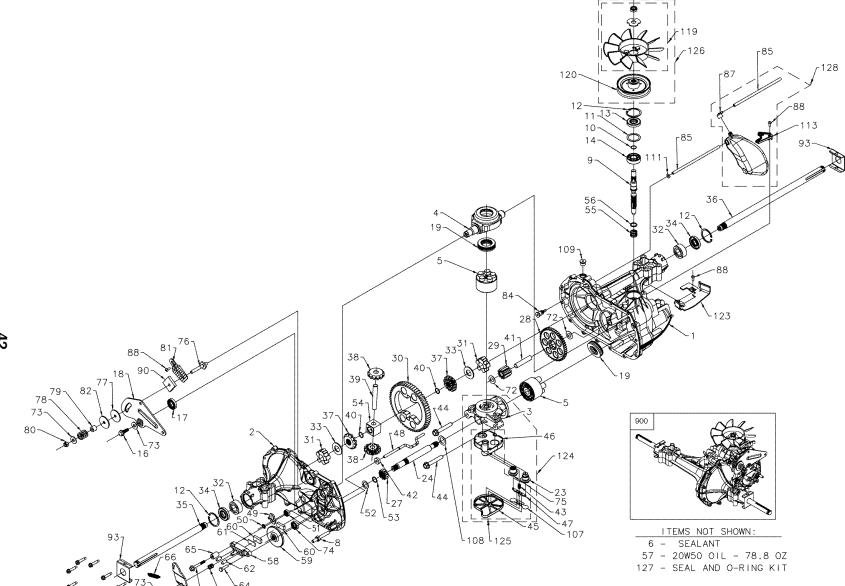
TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 MOWER LIFT



## TRACTOR - MODEL NO. 917.279260 (GTH2448T), PRODUCT NO. 960 43 00-09 MOWER LIFT

KEY NO.	PART NO.	DESCRIPTION
2 3 7 10 87 88 89 90 91 92 95 97 98 99 100	532 19 52-30 532 19 64-92 532 19 63-14 532 19 42-09 532 19 53-04 819 19 19-12 532 19 42-08 532 19 79-84 532 19 51-74 532 19 51-71 817 06 06-12 532 19 52-64 532 19 52-63	Shaft Asm., Lift Lever Asm., Lift Rh Grip, Lever Spring Torsion Pin Cotter 7/16 Bow Tie Lock Spring Lift Assist Washer Clear Zinc Pin Cotter 5/16 Bow Tie Lock Link Lift Susp Mower Rear Bracket Connect Link Lift Bushing Alignment Link Lift Screw 3/8-16 x .75 Smgml Tap/R.Z Link Lift Susp. Front Mower Bushing Spherical Susp Front Nut Hex Jam ASF 7/16-20 unf

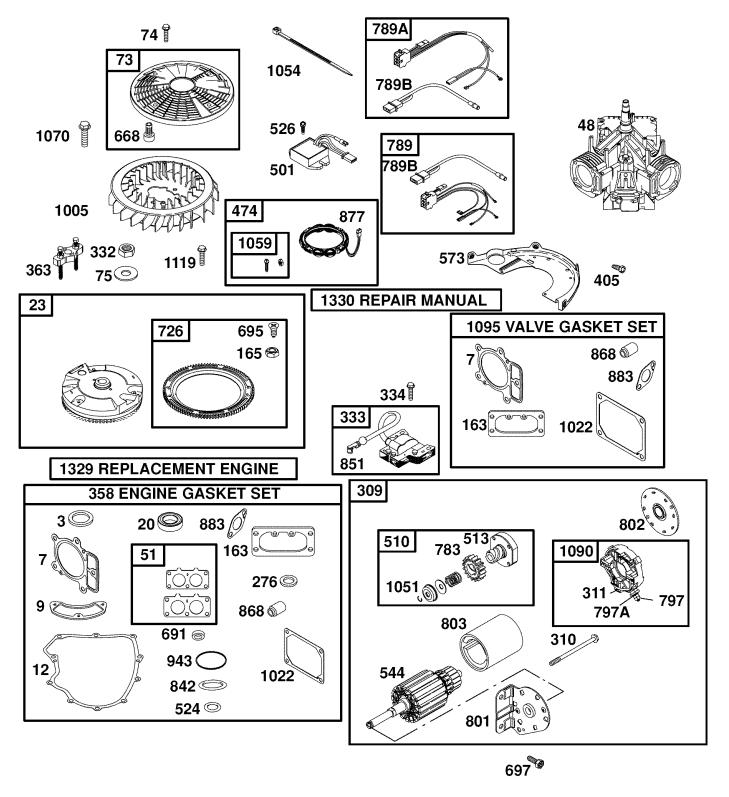
**NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

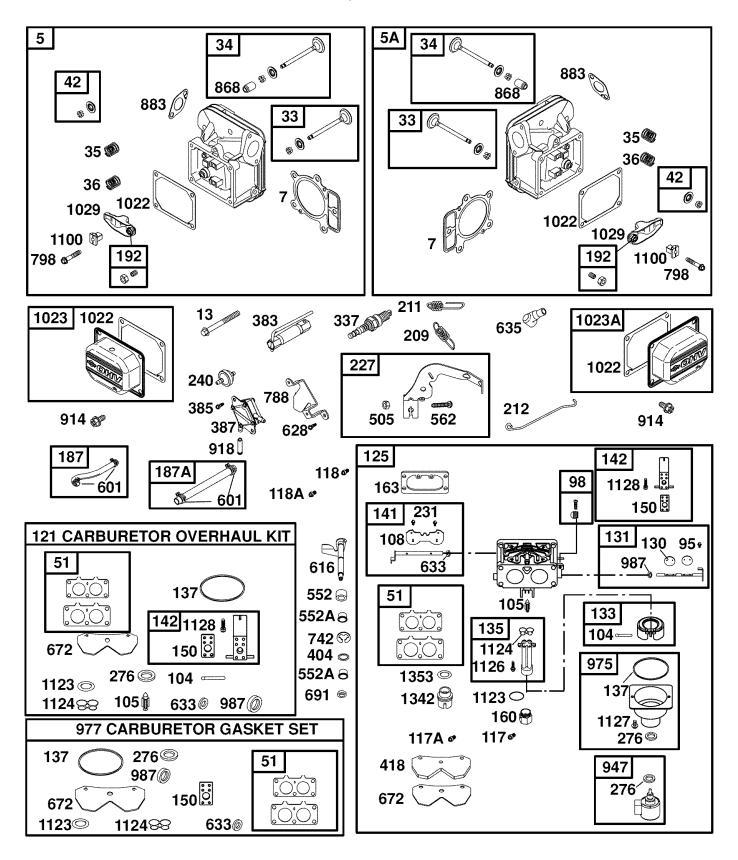


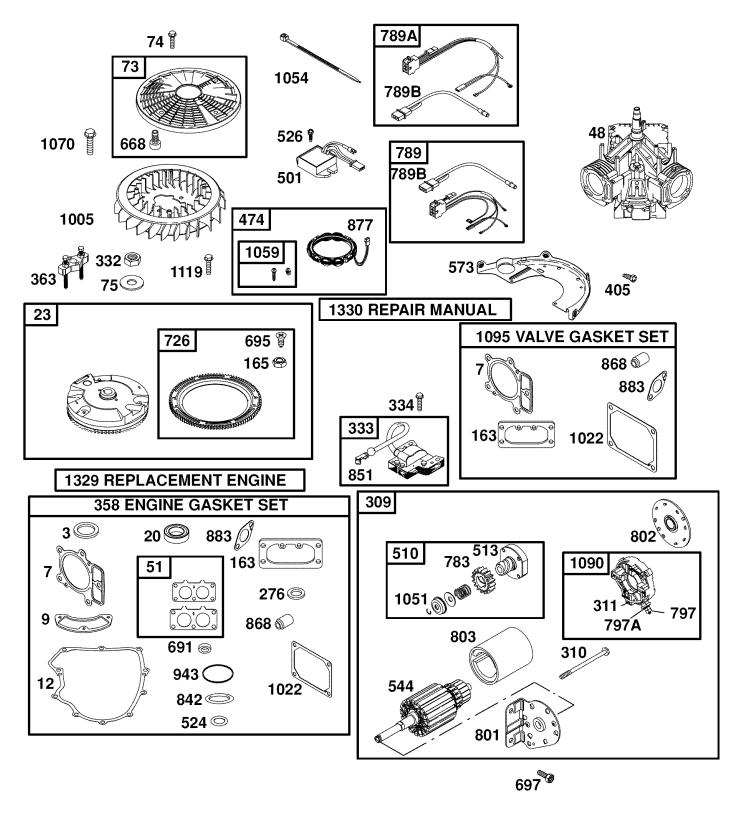
# TRACTOR - MODEL NO. 917.279260 (GTH2448T) HYDRO TRANSAXLE - - MODEL NUMBER 316-0610

Key No.	Part No.	Description			
1	170351	Kit, Main Housing Main Housing, Machined Bushing,865 X,985 X,790	Key No.	Part No.	Description
2	170352	Kit, Side Housing Side Housing, Machined Bushing.865 X.985 X.790	64 65	142892 170411	Bolt, Nylok Spacer, Brake Torsion Spring
3	170353	Bushing.624 X.719 X.562 Kit, Center Section Center Section, Machined Bushing.707 X.788 X.591	66 68	401262 401263	Spring, Brake forsion Spring Spring, Brake Arm Bias Arm-brake, RH
4	170354	Swashplate, Trunnion Machined	69	170415	Nut, Castle 5/16-24
5	169898	Kit, Cylinder Block (1000) Block - Cylinder Piston	70 71	170416 170417	Pin, Cotter 3/32x3/4 Brake Spring
6	178322	Spring, Compression Washer Thrust Sealant Tube	71	170417	Washer (310-0750)
7	170356	Hexflange Screw 1/4-20 X 1.25	73	142884	Washer, Flat
8	170357	Stud, 5/16-24 Hex Double End	74	170419	Seal, Oil
9	170358	Shaft, Input	75	170420	Ass'y Check Plug
10	170359	Retaining Ring	76 77	170421 170422	Bolt, Stud 5/16-24 Puck, Friction
11	170360	Spacer	77 78	142969	Spring
12 13	169870 170361	Retaining Ring Seal, Lip.67 X 1.58 X.276	79	142980	Spacer
14	173158	Bearing, Ball 6203 (BDR)	80	150778	Nut, Nylon Insert Hex Lock 5/16-24
16	170362	Hex Flange Head Screw 1/4-20 X 1.25	81	170423	Wedge, Friction
17	170363	Seal, Lip 18 X 32 X 7	82	170424	Clip, Washer
18	170364	Arm, Control	84	170425	Fitting, 5/16 X Sae 5/32 Tube
19	173159	Bearing, Thrust (10cc)	85 87	170426 401264	Hose, Expansion Tank Cap, Barbed Vent
23 24	404023 170366	Shock Valve Assemblý 270 Bar Shaft Motor	88	178334	Bolt, Self Tapping (BDR)
27	404024	Gear, Pinion, 12T	90	170430	Puck, Inner Wedge
28	404025	Gear 1 OT / 49T	93	170431	Spring Clip, Housing
29	170369	Gear, 1 OT Jackshaft	107	170432	Deflector
30	406920	60t Bullgear	108	170433	Washer, Motor Shaft.71 ID X 1.150D X.03 Thick
31	170371	Sleeve Bearing .75 X 1.75 X.625	109 111	170434 170435	Plug, Straight Thread 9/16-18 O-ring .7 X.301 ID
32 33	170389 142991	Sleeve Bearing (Outboard) .75 X 1.575 X.625 Washer	113	170437	Bracket, Support Expansion Tank
34	170390	Lip Seal, Axle Shaft	119	191031	Kit, Fan - Washer - Nut
35	406921	Shaft, Axle (Keyed, R.h.)			Fan, 7 In
36	406922	Shaft, Axle (Keyed, L.h.)			Hex Lock Nut 1/2-20 (Nylon Insert)
37	406923	Gear, Steel Miter 12T (Splined)	120	170440	Washer, Or Slotted, .53 X 1.63 X.06 Pulley
38 39	406924 150809	Gear, Steel Miter 12T	123	401265	Belt Keeper
40	170393	Differential Shaft (310-0750) Retaining Ring	124	404029	Center Section Filter Bypass Assembly
41	170394	Pin, Jackshaft			Center Section Base Filter W/ Poppet Shock Valve
42	170395	Magnet, Ring			Assembly
43	170396	Spring, Bypass			270bar Check Plug Assembly, .027 Washer
44	150797	Bolt 3/8-24 X 2-1/2			Spring, Bypass Actuator, Bypass Deflector Bottom, Filter
45	170397	Filter			Bushing, .707 X.788 X.591
46 47	170398 170399	Base, Filter Actuator, Bypass	125	170445	Kit, Filter
48	170400	Rod, Bypass Actuator			Bottom, Filter Spring,
49	196599	Arm. Bypass			Bypass Actuator,
50	170402	Retaining Ring.25 External			Bypass Deflector
51	170403	Seal, Lip .741 X.25 X.25	126	170446	Base, Filter W/ Poppet
52 53	170404	Washer, Flat 0.050" (210-1000)	120	170446	Kit, Fan/pulley Hex Jam 1/20-20 (Nylon Inser)
53 54	170405 170406	Retaining Ring Bearing, Center Block			Washer, OD Slotted, .53 X 1.63 X.06 Fan, 7 In
55	142977	Spring, Helical Compression			Pulley
56	142978	Washer, Block Thrust	127	170447	Kit, Seal
57	20w-50	Oil			Lip Seal.67 X 1.58 X.276 Lip Seal 18 X 32 X 7
58	142929	Kit, Brake Yoke			Lip Seal .706 X 1.584 X.25 Lip Seal.741 X.250 X.250 TC Oil
59 60	170408	Rotor, Brake Brake Puck			Seal.625 X1.0x.25 O-ring.07 X .301 ID
60 61	142883 142882	Brake Puck Brake Puck Plate	128	401266	Kit, Expansion Tank
62	170409	Pin. Brake Actuating			Tank, Expansion Assembly Cap, Barbed Vent
63	170410	Hfhcs 1/4-20 X 2 W/patch, Special Flange			Bolt, Self Tapping 10-32 X 1/2 Bracket,
					Support Expansion Tank Hose,
			900	192587	Expansion Tank Transaxle
			300	132301	папоаль

Note: All Component Dimensions Given In U.S. Inches 1 Inch = 25.4 mm







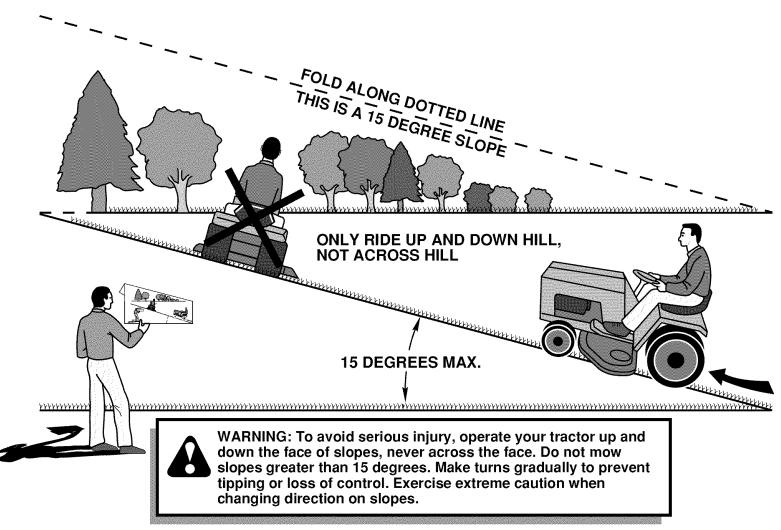
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	699753	Cylinder Assembly	121	699734	Kit-Carburetor Overhaul
2	499585	Kit-Bushing/Seal (Magneto	125	699709	Carburetor
		Side)	130	690993	Valve-Throttle
3	391086s•	Seal-Oil (Magneto Side)	131	499805	Kit-Throttle Shaft
4	699747	Sump-Engine	133	699724	Float-Carburetor
5	693998	Head-Cylinder (Cylinder 1)	135	699729	Tube-Fuel Transfer
5A	693999	Head-Cylinder (Cylinder 2)	137	690994	؇Gasket-Float Bowl
7	693997	•+ Gasket-Cylinder Head	141	699722	Kit-Choke Shaft
8	792185	Breather Assembly	142	699726	Ø Nozzle-Carburetor
9	690937	Gasket-Breather	146 150	690979 690995	Key-Timing ؇Gasket-Nozzle
10	691108	Screw (Breather Assembly)	160	699727	Retainer-Solenoid
11	690942	Tube-Breather	163	691001	•+ Gasket-Air Cleaner
12	697227	Gasket-Crankcase	165	693148	Nut (Ring Gear)
13	791130	Screw (Cylinder Head)	187	791766	Line-Fuel
15 15 ^	690946	Plug-Oil Drain	101	701700	(Cut to Required Length)
15A 16	691680 790132	Plug-Oil Drain Crankshaft	187A	791744	Line-Fuel (Molded)
20	690947	Seal-Oil (PTO Side)	188	691108	Screw (Control Bracket)
22	694966	Screw (Crankcase Cover)	192	690083	Adjuster-Rocker Arm
23	691053	Flywheel	209	697674	Spring-Governor
24	222698s	Key-Flywheel	211	691019	Spring-Governed Idle
25	792117	Piston Assembly (Standard)	212	695238	Link-Ğovernor
	702117	792144 Piston Assem-	213	691021	Bracket-Choke Control
		bly (.020" Oversize)	216	691022	Link-Choke
26	792026	Ring Set (Standard)	219	698231	Gear-Governor
		792073 Ring Set (.020"	220	690412	Washer (Governor Gear)
		Oversize)	222	698761	Bracket-Control
27	690975	Lock-Piston Pin	227	792492	Lever-Governor Control
28	690229	Pin-Piston (Standard)	231	690718	Screw (Choke Valve)
29	699699	Rod-Connecting (Standard)	240	691035	Filter-Fuel
32	690976	Screw (Connecting Rod)	250	690957	Retainer-Breather
33	499596	Valve-Exhaust	252 265	690956	Collector-Oil
34	697464	Valve-Intake	265 267	691024 695134	Clamp-Casing Screw (Casing Clamp)
35	694865	Spring-Valve (Intake)	276	690997	•؇Washer-Sealing
36	694865	Spring-Valve (Exhaust)	287	691108	Screw (Dipstick/Tube Assembly)
42	499586	Keeper-Valve	304	790688	Housing-Blower
45 46	690977	Tappet-Valve	305	691005	Screw (Blower Housing)
46 48	790562 698173	Camshaft Short Block		790690	Screw (Blower Housing)
50	695241	Manifold-Intake	309	691262	Motor-Starter
51	791677	•؇ Gasket-Intake	310	691263	Screw (Starter Motor)
53	690951	Stud (Carburetor)	311	497608	Brush Set
54	695239	Screw (Intake Manifold)	332	691059	Nut (Flywheel)
54A	699816	Screw (Intake Manifold)	333	691060	Armature-Magneto
73	494439	Screen-Rotating	334	691061	Screw (Magneto Armature)
74	698425	Screw (Rotating Screen)	337	691043	Plug-Spark _
75	691056	Washer (Flywheel)	358	694012	Gasket Set-Engine
89	690283	Plug-Oil	363	691062	Puller-Flywheel
95	690718	Screw (Throttle Valve)	383	690966	Wrench-Spark Plug
98	699721	Kit-Idle Speed	_	: اممامیانی	Engine Cooket Cot Very No. 050
104	694918	Ø Pin-Float Hinge	ø		Engine Gasket Set, Key. No. 358 Carburetor Overhaul Kit, Key. No. 121
105	698537	Ø Valve-Float Needle	Ø		Carburetor Overnaul Kit, Key. No. 121 Carburetor Gasket Set, Key. No. 977
108	699723	Valve-Choke	‡ +		Valve Gasket Set, Key. No. 1095
117	699732	Jet-Main (Standard)(Left)	T	moradea III	valve dasher der, Ney, No. 1090
	699733	Jet-Main (Standard)(Right)	NOTE	Fr All compo	nent dimensions given in U.S. inches 1
118	790890	Jet-Main (High Altitude)(Left)	14011	/ til Golfipoi	inch = 25.4 mm
118A	699458	Jet-Main (High Altitude)(Right)			11011 - 2071 11111

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
385 387	690960 808656	Screw (Fuel Pump) Pump-Fuel		691014	Cover-Air Guide (Cylinder 2)
404	690442	Washer (Governor Crank)	865B	691015	Cover-Air Guide
405	697820	Screw (Back Plate)	868	690968	•+ Seal-Valve
418	690999	Plate-Carburetor	877	399916	Wire/Connector-Alternator
431	790816	Elbow-Intake	883	690970	•+ Gasket-Exhaust
445	499486s	Filter-Air Cleaner Cartridge	914	691127	Screw (Rocker Arm Cover)
447	691003	Screw (Air Guide Cover)	918	694000	Hose-Vacuum
	691108	Screw (Air Guide Cover)	929	695239	Screw (Choke Control Bracket)
467	691008	Knob-Air Cleaner		691003	Screw (Choke Control Bracket)
467A	790697	Knob-Air Cleaner	943	690589	Seal-O Ring (Oil Pump Cover)  Coloradid Final
474	696458	Alternator	947 965	699728	Solenoid-Fuel
501	691185	Regulator	965 967	499613 273638s	Cover-Oil Pump Filter-Pre Cleaner
505	691029	Nut (Governor Control Lever)	968	790689	Cover-Air Cleaner
510	497606	Drive-Starter	975	499810	Bowl-Float
513	692024	Clutch-Drive	977	699735	Gasket Set-Carburetor
523	691036	Dipstick	987	691000	؇Seal-Throttle Shaft
524 525		Seal-O Ring (Dipstick Tube)  Title Dipatiel		790698	Fan-Flywheel
525 526	691037 691108	Tube-Dipstick Screw (Regulator)		690954	Nipple-Oil Filter
544	091100	Armature-Starter	1017	690770	Screen-Oil Pump
344		(Serviced by 691262 Starter	1022	690971	•+ Gasket-Rocker Cover
		Motor Only)		499599	Cover-Rocker Arm (Cylinder 1)
552	690552	Bushing-Governor Crank		A499600	Cover-Rocker Arm (Cylinder 2)
	690553	Bushing-Governor Crank		499054	Pump-Oil
562	690311	Bolt (Governor Control Lever)		690981	Rod-Push (Steel)
573	790444	Plate-Back		A690982	Rod-Push (Aluminum)
601	691038	Clamp-Hose		492932s	Filter-Oil
615	698290	Retainer-Governor Shaft		690972	Arm-Rocker
616	691045	Crank-Governor		691042	Shaft-Pump
617	697891	Seal-O Ring (Intake Manifold)		792019 691265	Label-Emissions Ring-Retaining
628	691108	Screw (Fuel Pump Bracket)		280275	Cable-Tie
633		؇Seal-Choke/Throttle Shaft		275475	Owner's Manual
635	66538s	Boot-Spark Plug		698516	Kit-Screw/Washer
654	690958	Nut (Carburetor)		690372	Screw (Flywheel Fan)
668	691215	Spacer Carburator Plata		691293	Retainer-Brush
672 691	690234 790574	؇Gasket-Carburetor Plate • Seal-Governor Shaft	1095	694013	Set-Valve Gasket
695	693149	Screw (Ring Gear)	1100	791959	Pivot-Rocker Arm
697	690372	Screw (Tring Gear)	1119	691183	Screw (Alternator)
703	691010	Clip		699725	؇Seal-O Ring (Solenoid Retainer)
718	690959	Pin-Locating		690988	؇Seal-O Ring (Fuel Transfer Tube)
726	499612	Gear-Ring		690991	Screw (Fuel Transfer Tube)
741	690980	Gear-Timing		690992	Screw (Float Bowl)
742	690328	Retainer-E Řing		690990	Ø Screw (Carburetor Nozzle)
750	696999	Screw (Oil Pump Cover)	1329	446777-0026	
783	693058	Gear-Pinion			(If original engine is equippe
788	691039	Bracket-Fuel Pump			with a six pin wiring harness transfer to the replacement
789	698330	Harness-Wiring			engine. Transfer oil sensor to
	696576	Harness-Wiring			the replacement engine).
	790544	Harness-Wiring	1330	273521	Repair Manual
797 707 <b>^</b>	691029	Nut (Brush Retainer)		699731	Extension-Fuel Transfer Tube
797A 798	693167 697890	Nut (Brush Retainer)		699725	Seal-O Ring (Fuel Transfer Tube
798 801	691283	Screw (Rocker Arm) Cap-Drive			Extension)
802	691286	Cap-End			,
803		Housing-Starter (Serviced by	•		ngine Gasket Set, Key. No. 358
200		691262 Starter Motor Only)	Ø		arburetor Overhaul Kit, Key. No. 121
842	691031	Seal-O Ring (Dipstick)	‡		arburetor Gasket Set, Key. No. 977
847	499602	Assembly-Dipstick/Tube	+	included in Va	alve Gasket Set, Key. No. 1095
851	493880s	Terminal-Spark Plug	NOT	Er All gammara	ant dimensions given in LLC inch
865	691012	Cover-Air Ġuide (Cylinder 1) 48	NOTE	: All compone 1 inch = 25.4	ent dimensions given in U.S. inches mm

## **SERVICE NOTES**

## SERVICE NOTES

### SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



- 1. Fold this page along dotted line indicated above.
- 2. Hold page before you so that its left edge is vertically parallel to a tree trunk or other upright structure.
- 3. Sight across the fold in the direction of hill slope you want to measure.
- 4. Compare the angle of the fold with the slope of the hill.

# **Husqvarna**

#### SECTION 1: LIMITED WARRANTY

Husqvarna Forest & Garden Company ("Husqvarna") warrants Husqvarna product to the original purchaser to be free from defects in material and workmanship from the date of purchase for the "Warranty Period" of the product as set forth below:

Lifetime Warranty: All tiller tines against breakage, trimmer shafts, ignition coils and modules on hand held product.

- 3 Year Warranty: Spindles (on Zero Turn Riders and Commercial Walk-Behinds)
- 2 Year COMMERCIAL-Warranty: Husqvarna Commercial Turf Equipment—zero turn riders, wide area walks, and ground engaging commercial equipment.
- 2 Year NON-COMMERCIAL Warranty: Automatic Mower, Riding lawn mowers, yard and garden tractors, walk behind mowers, tillers, chain saws, trimmers, brushcutters, clearing saws, snow blowers, handheld blowers, backpack blowers, hedge trimmers, electrical products and power-assist collection systems for <u>noncommercial</u>, nonprofessional, noninstitutional or nonincome producing use, except as herein stated.

Emission control system components necessary to comply with CARB-TIER-II and EPA regulations, except for those components which are part of engine systems manufactured by third party engine manufacturers for which the purchaser has received a separate warranty with product information supplied at time of purchase.

1 Year Warranty: Power cutters, stump grinder, pole pruners and pole saws for <u>non-commercial, non-professional, non-institutional or non-income producing use</u>. All trimmers, brushcutters, clearing saws, hovering trimmers, stick edgers, backpack blowers, hand held blowers, hedge trimmers, power-assist collection systems used for commercial, institutional, professional or income producing purposes or use.

Batteries have a one-year prorated limited warranty with 100% replacement during the first 6 months.

**90 Day Warranty:** Automatic Mower, Chain saws, power cutters, stump grinders, pole saws, pole pruners, snow throwers, model series 580 & 600 walk-behind mowers and commercial turf equipment or any Husqvarna product used for <u>commercial</u>, institutional, <u>professional</u>, or income producing purposes or use except as otherwise provided herein.

Husqvarna Safety Apparel carries a 90-day warranty from the date of the customer's original purchase for defects in material and workmanship. Normal wear, tear or abuse is not covered under warranty. Product must be returned to Charlotte with a warranty claim form. All care and maintenance instructions must be followed as stated by the manufacturer on the care label. The fit of the protective apparel/boot is not covered under warranty.

30 Day Warranty: Replacement parts, accessories including bars and chains, tools and display items.

#### SECTION 2: HUSQVARNA'S OBLIGATIONS UNDER THE WARRANTY

Husqvarna will repair or replace defective components without charge for parts or labor if a component fails because of a defect in material or workmanship during the warranty period.

#### SECTION 3: ITEMS NOT COVERED BY THIS WARRANTY

The following items are not covered by this warranty:

- (1)Normal customer maintenance items which become worn through normal regular use, including, but not limited to, belts, blades, blade adapters, bulbs, filters, guide bars, lubricants, rewind springs, saw chain, spark plugs, starter ropes and tines;
- (2) Natural discoloration of material due to ultraviolet light;
- (3)Engine and drive systems not manufactured by Husqvarna; these items are covered by the respective manufacturer's warranty as provided in writing with the product information supplied at the time of purchase; all claims must be sent to the appropriate manufacturer;
- (4)Lawn and garden attachments are covered by a third party which gives a warranty, all claims for warranty should be sent to the manufacturer; and
- (5)Emission Control System components necessary to comply with CARB-TIER-II and EPA regulations which are manufactured by third party engine manufacturer.

### **WARRANTY STATEMENT**

#### **SECTION 4: EXCEPTIONS AND LIMITATIONS**

This warranty shall be inapplicable to defects resulting from the following:

- (1)Accident, abuse, misuse, negligence and neglect, including stale fuel, dirt, abrasives, moisture, rust, corrosion, or any adverse reaction due to incorrect storage or use habits;
- (2) Failure to operate or maintain the unit in accordance with the Owner's/Operator's manual or instruction sheet furnished by Husqvarna:
- (3)Alterations or modifications that change the intended use of the product or affects the product's performance, operation, safety, or durability, or causes the product to fail to comply with any applicable laws: or:
- (4)Additional damage to parts or components due to continued use occurring after any of the above.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. HUSOVARNA SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THESE PRODUCTS EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THESE PRODUCTS IS LIMITED IN DURATION TO THE WARRANTY PERIOD AS DEFINED IN THE LIMITED WARRANTY STATEMENT. HUSOVARNA RESERVES THE RIGHT TO CHANGE OR IMPROVE THE DESIGN OF THE PRODUCT WITHOUT NOTICE, AND DOES NOT ASSUME OBLIGATION TO UPDATE PREVIOUSLY MANUFACTURED PRODUCTS.

Some states do not allow the exclusion of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

#### **SECTION 5: CUSTOMER RESPONSIBILITIES**

The product must exhibit reasonable care, maintenance, operation, storage and general upkeep as written in the maintenance section of the Owner's/Operator's manual. Should an operational problem or failure occur, the product should not be used, but delivered as is to an authorized Husqvarna dealer for evaluation. Proof of purchase, as explained in section 6, rests solely with the customer.

#### SECTION 6: PROCEDURE TO OBTAIN WARRANTY CONSIDERATION

It is the Owner's and Dealer's responsibility to make certain that the Warranty Registration Card is properly filled out and mailed to Husqvarna Forest & Garden Company. This card should be mailed within ten (10) days from the date of purchase in order to confirm the warranty and to facilitate post-sale service.

Proof of purchase must be presented to the authorized Husqvarna dealer in order to obtain warranty service. This proof must include date purchased, model number, serial number, and complete name and address of the selling dealer.

To obtain the benefit of this warranty, the product believed to be defective must be delivered to an authorized Husqvarna dealer in a timely manner, no later than thirty (30) days from date of the operational problem or failure. The product must be delivered at the owner's expense. Pick-up and delivery charges are not covered by this warranty. An authorized Husqvarna dealer can be normally located through the "Yellow Pages" of the local telephone directory or by calling 1-800-HUSKY62 for a dealer in your area.

HUSQVARNA 7349 Statesville Road Charlotte, NC 28269

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