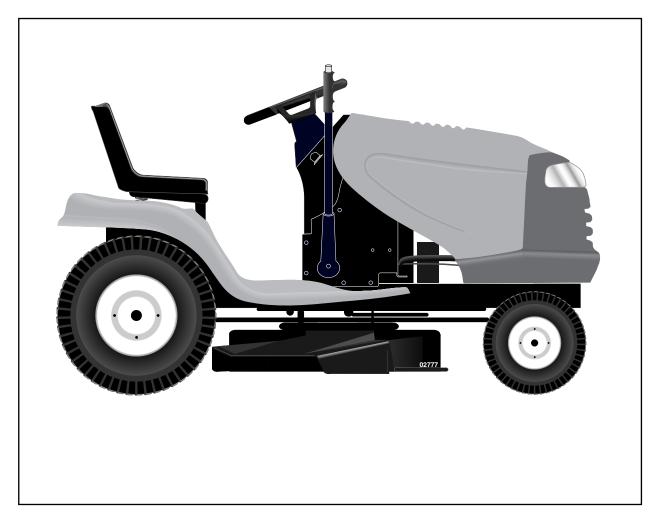
# **Ö**Husqvarna



# **YTH2748**

**Owner's Manual** 

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### **SAFETY RULES**



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

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



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.



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 🛕

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 backing.
- 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 light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- 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**

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

- Keep children out of the mowing area and 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.
- 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 equipment.
- 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 immediately.
- Never overfill fuel tank. Replace gas cap and tighten securely.

#### GENERAL SERVICE

- Never operate machine in a closed are.
- 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 running.
- 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 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.
- 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 10W30 (above 32°F) SAE 5W-30 (below 32°F)			
Oil Capacity:	W/ Filter: W/O Filter:			
Spark Plug: (Gap: .030")	Champion RC12YC			
Ground Speed (MPH):	Forward: Reverse:	0 – 5.5 0 – 2.4		
Tire Pressure:	Front: Rear:	14 PSI 10 PSI		
Charging System:	15 AMPS @ 3600 RPM			
Battery:	AMP/HR: MIN. CCA: Case Size:			
Blade Bolt Torque:	45-55FT. LBS	b		

**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.

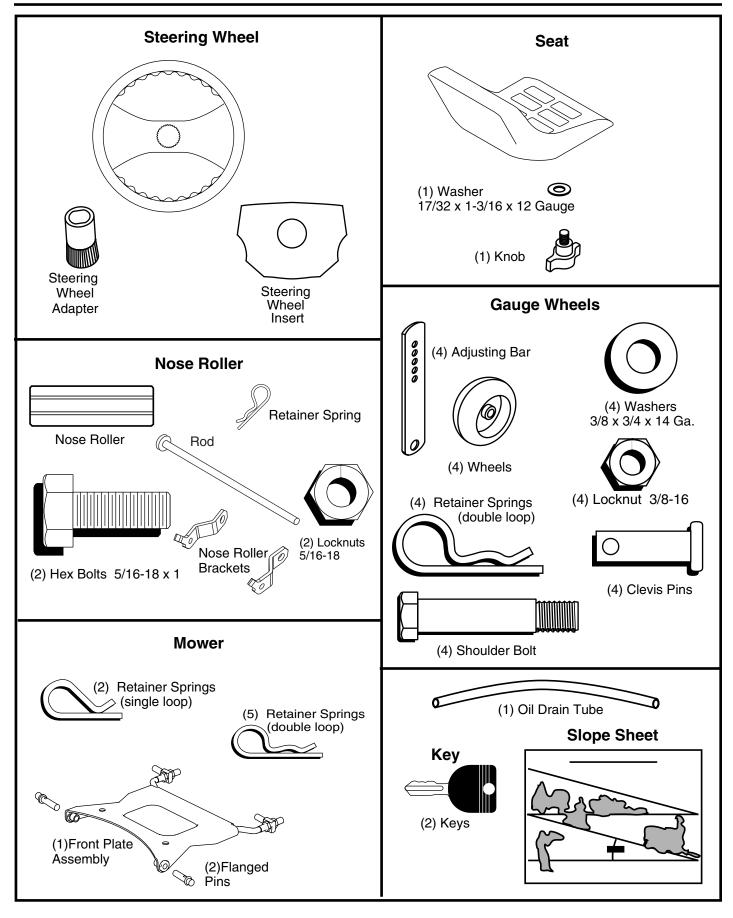
A spark arrester for the muffler is available through your nearest authorized service center/department (See REPAIR PARTS section of this manual).

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# **UNASSEMBLED PARTS**



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

### TOOLS REQUIRED FOR ASSEMBLY

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

(2) 3/4" wrenches

(2) 7/16" wrenches

Pliers Tire pressure gauge Utility knife

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

# TO REMOVE TRACTOR FROM CARTON

#### **UNPACK CARTON**

- Remove all accessible loose parts and parts cartons from carton.
- Cut along dotted lines on all four panels of carton. Remove end panels and lay side panels flat.
- Check for any additional loose parts or cartons and remove.

# BEFORE REMOVING TRACTOR FROM SKID

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

- Remove locknut and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto steering wheel adapter.
- Secure steering wheel to steering shaft with locknut and large flat washer previously removed. Tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

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

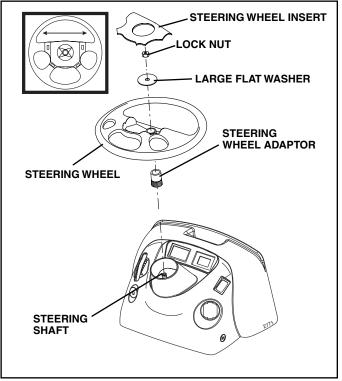
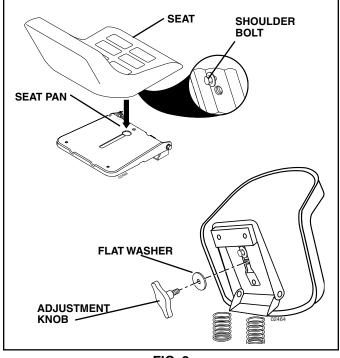


FIG. 1

### **INSTALL SEAT (See Fig. 2)**

Adjust seat before tightening adjustment knob.

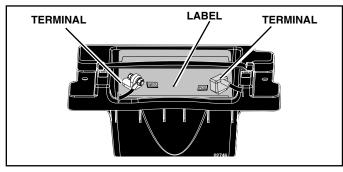
- Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
- Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
- Place seat on seat pan so head of shoulder bolt is positioned over large slotted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





### CHECK BATTERY (See Fig. 3)

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





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

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

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place freewheel control in "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.
- Start the engine. After engine has started, move throttle control to idle 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.

#### TO ATTACH NOSE ROLLER (See Fig. 4)

• Assemble brackets "A" and "B" to the inside of mower mounting brackets as shown. Tighten securely.

**NOTE:** Be sure bracket tabs are positioned in tab holes in mower brackets.

• Position nose roller between brackets and install rod and retainer spring.

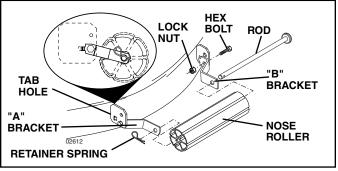


FIG. 4

# ASSEMBLE GAUGE WHEELS TO MOWER DECK (See Fig. 5)

The gauge wheels are designed to keep the mower deck in proper position when operating mower. Be sure they are properly adjusted to ensure optimum mower performance.

• Slide gauge wheel bar down into bracket channel, Be sure that gauge wheel bar aligning holes are on top. Assemble gauge wheels as shown using shoulder bolts, 3/8 washers and 3/8-16 center locknuts and tighten securely.

- For ease of mower to tractor assembly, raise gauge wheels to highest position and retain with clevis pins and spring retainers.
- Adjust gauge wheels before operating mower. See "TO ADJUST GAUGE WHEELS" in the Operation section of this manual.

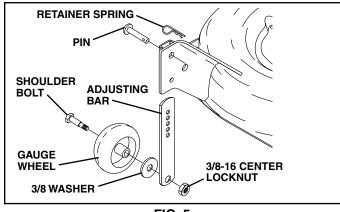


FIG. 5

# INSTALL MOWER AND DRIVE BELT (See Figs. 6 and 7)

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

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

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

- If equipped, turn height adjustment knob counterclockwise until it stops.
- Lower mower linkage with attachment lift control.
- Be sure belt tension rod is in disengaged position.
- Install belt into electric clutch pulley groove.
- Place the suspension arms on outward pointing deck pins. Retain with double loop retainer spring with loops up as shown.
- Install front plate assembly to tractor suspension brackets and retain with single loop retainer springs as shown.
- Position front plate assembly between front mower brackets. Raise deck and plate assembly to align holes and insert flanged pins. Secure pins with double loop retainer springs between the plate assembly and mower brackets.

**NOTE:** To assist in locating hole in flanged pin, the hole in pin is inline with notch on head of pin. If necessary, move mower side-to-side to give space between plate and mower brackets.

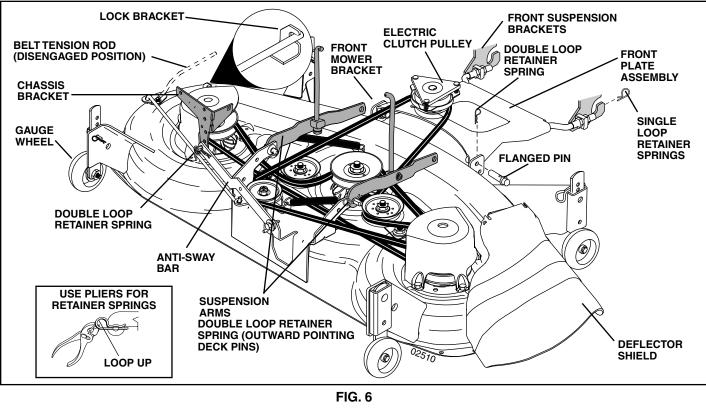
**IMPORTANT:** Check belt for proper routing in all mower pulley grooves. Engage belt tension rod by pushing rod into locking bracket.

• Engage belt tension rod by pushing rod into locking bracket.



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

- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- If equipped, turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise deck to highest position.
- Adjust gauge wheels before operating mower as shown in the Operation section of this manual.



#### **CHECK TIRE PRESSURE**

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

• Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" section of this manual.

#### CHECK DECK LEVELNESS

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

## CHECK FOR PROPER POSITION OF ALL BELTS

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

#### CHECK BRAKE SYSTEM

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

### ✓ CHECKLIST

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

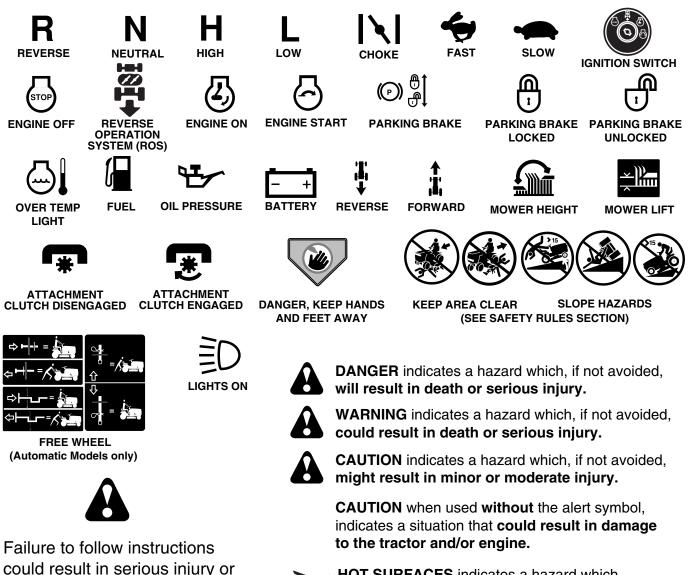
PLEASE REVIEW THE FOLLOWING CHECKLIST:

- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- Be sure mower deck is properly leveled side-to-side/ front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- ✓ Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- ✓ Check wiring. See that all connections are still secure and wires are properly clamped.
- 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 meaning.



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.

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

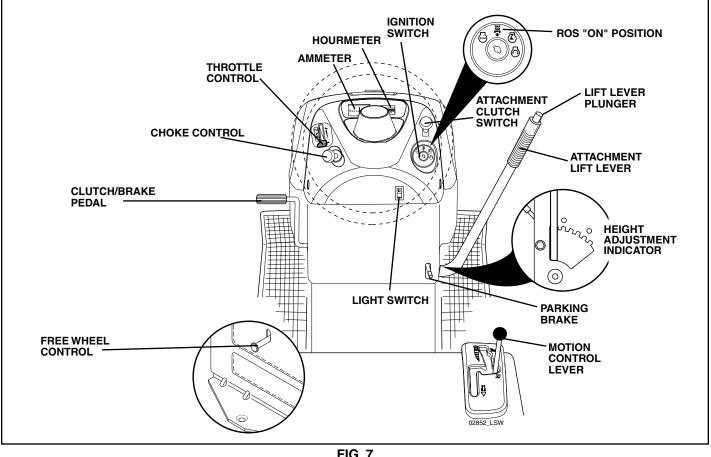


**FIRE** indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.

### **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.7** 

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

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

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

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

CHOKE CONTROL - Used when starting a cold engine.

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

**FREEWHEEL CONTROL** - Disengages transmission for pushing or slowly towing the tractor with the engine off.

HOURMETER - Indicates hours of operation.

**IGNITION SWITCH** - Used for starting and stopping the engine.

LIGHT SWITCH - Turns the headlights on and off.

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

MOTION CONTROL LEVER - Selects the speed and direction of tractor.

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

**REVERSE OPERATION SYSTEM (ROS) "ON" POSI-**TION - Allows operation of mower deck or other powered attachment while in reverse.

THROTTLE CONTROL - Used to control engine speed.



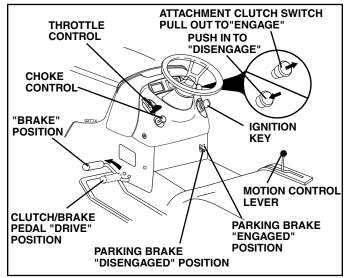
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

### HOW TO USE YOUR TRACTOR

### TO SET PARKING BRAKE (See Fig. 8)

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

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





### STOPPING (See Fig. 8)

MOWER BLADES -

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

**GROUND DRIVE -**

- To stop ground drive, depress clutch/brake pedal into full "BRAKE" position..
- Move motion control lever to neutral (N) position.

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

ENGINE -

Move throttle control 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 to "STOP" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

**IMPORTANT:** LEAVING THE IGNITION SWITCH IN ANY POSITION OTHER THAN "STOP" WILL CAUSE THE BATTERY TO BE DISCHARGED, (DEAD).

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



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

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

Always operate engine at full throttle.

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

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

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

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

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

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

- 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 determines the cutting height.

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

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

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

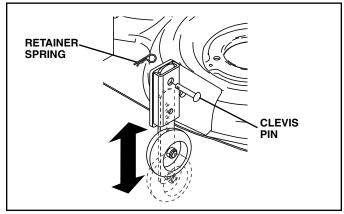
### TO ADJUST GAUGE WHEELS (See Fig. 9)

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 the Operation section of this manual).
- Remove retainer spring and clevis pin which secure each gauge wheel bar.
- Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pin. Gauge wheels should be slightly off the ground.
- Replace retainer spring into clevis pin.
- Be sure all gauge wheels are in the same setting.

**IMPORTANT:** BE SURE TO READJUST GAUGE WHEELS IF YOU CHANGE THE CUTTING HEIGHT OF THE MOWER DECK.





### TO OPERATE MOWER (See Fig. 10)

Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine. 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.

- Select desired height of cut.
- 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 in place.

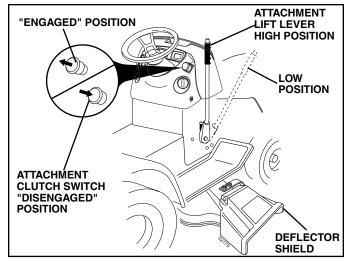


FIG. 10

#### **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.

**WARNING:** 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 -**

- Move motion control lever to neutral (N) position.
- With engine running, turn ignition key counterclockwise to ROS "ON" position.
- Look down and behind before 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



WARNING: 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 CONTROL LEVER DOES NOT RETURN TO NEUTRAL (N) POSITION WHEN THE CLUTCH/ BRAKE PEDAL IS DEPRESSED.

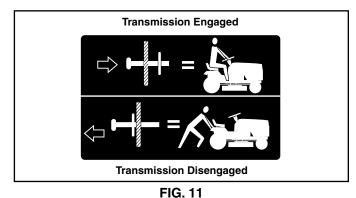
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

### TO TRANSPORT (See Figs. 7 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.

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



### TOWING CARTS AND OTHER ATTACHMENTS

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

### **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.

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

#### ADD GASOLINE

 Fill fuel tank 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. 7)

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 warmup 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 level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling 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 slow position. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.

 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.

**NOTE:** During this procedure there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

- Move motion control lever to neutral (N) position. Shutoff engine and set parking brake.
- 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.
- 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).

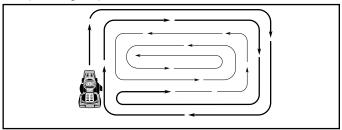


FIG. 12

- 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.

AS	MAINTENANCE SCHEDUL L IN DATES YOU COMPLETE GULAR SERVICE	E	BEFORE	EACHUS EVERY P	SE HOURS	SHOUP SHOUP	NO HOUP	15 00 HOU VERY	RS DEASON DEFORE S	TORAGE	E DATES
	Check Brake Operation	~	V								
	Check Tire Pressure	~	<b>V</b>								
т	Check Operator Presence and ROS Systems	V									
R	Check for Loose Fasteners	~				<b>V</b> <sub>5</sub>		<b>/</b>			
A	Sharpen/Replace Mower Blades			<b>V</b> <sub>3</sub>							
CT	Lubrication Chart			~				~			
0	Check Battery Level			4							
R	Clean Battery and Terminals			~				~			
	Check Transaxle Cooling			~							
	Check V-Belts					<b>/</b>					
	Check Engine Oil Level		<b>V</b>								
	Change Engine Oil (with oil filter)				<b>1</b> ,2			~			
Е	Change Engine Oil (without oil filter)			<b>1</b> ,2				~			
N	Clean Air Filter			<b>√</b> 2							
Ģ	Clean Air Screen			<b>V</b> 2							
I N	Inspect Muffler/Spark Arrester				1						
E	Replace Oil Filter (If equipped)					1,2	2				
	Clean Engine Cooling Fins					<b>V</b> 2	2				
	Replace Spark Plug					<b>/</b>	<b>/</b>				
	Replace Air Filter Paper Cartridge					<b>V</b> 2					
	Replace Fuel Filter						V				

1 - Change more often when operating under a heavy load or in high ambient temperatures.

2 - Service more often when operating in dirty or dusty conditions.

### **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.

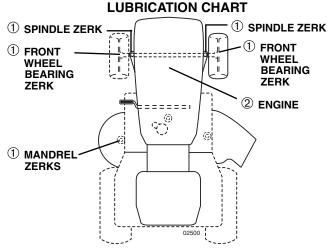
At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

 At 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.

- 3 Replace blades more often when mowing in sandy soil.
- 4 Not required if equipped with maintenance-free battery.
- 5 Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten.



- 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. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

### TRACTOR

Always observe safety rules when performing any maintenance.

#### **BRAKE OPERATION**

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

#### TIRES

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

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

#### OPERATOR PRESENCE SYSTEM AND REVERSE OP-ERATION 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.

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.

ROS "ON" POSITION

#### ENGINE "ON" POSITION (NORMAL OPERATING)





#### **BLADE CARE**

For best results mower blades must be kept sharp. Replace 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 or resharpened blade with stamped "THIS SIDE UP" facing deck and mandrel assembly.

**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 HEAT TREATED.

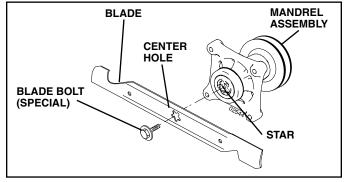


FIG. 13

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

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

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

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

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

Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

17

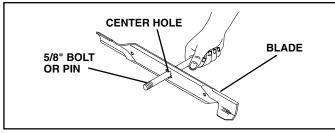


FIG. 14

### 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.

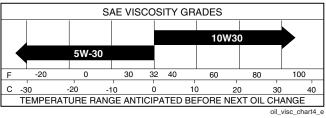


FIG. 15

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.

TO CHANGE ENGINE OIL (See Figs. 15 and 16)

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.

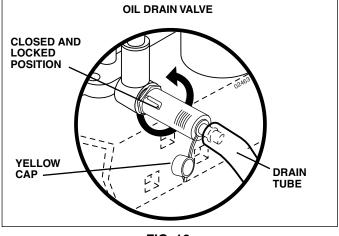


FIG. 16

- 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. For accurate reading, insert dipstick into the tube and push down firmly into place before removing. Keep oil up to, but not over, the "FULL" line on dipstick. Push dipstick down firmly into the tube 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. 17)

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

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

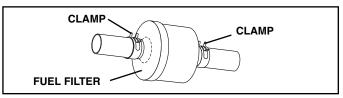


FIG. 17

#### **CLEANING**

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

We do not recommend using a garden hose 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. 18)

- Place attachment clutch in "DISENGAGED" position.
- If equipped, turn height adjustment knob to lowest setting.
- Lower mower to its lowest position.
- Disengage belt tension rod from lock bracket.



### CAUTION: Rod is spring loaded. Have a tight grip on rod and release slowly.

- Remove retainer spring holding anti-swaybar to chassis bracket and disengage anti-swaybar from bracket.
- Remove four retainer springs from front plate assembly and remove plate.
- Remove retainer springs from suspension arms at deck and disengage arms from deck.
- Raise attachment lift to its highest position.
- Slide mower forward and remove belt from electric clutch pulley.
- Slide mower out from under right side of tractor.

### TO INSTALL MOWER

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

- Swing anti-sway bar to left side of mower deck.
- Slide mower under tractor with deflector shield to right side of tractor.

**IMPORTANT:** CHECK BELT FOR PROPER ROUTING IN ALL MOWER PULLEY GROOVES.

- If equipped, turn height adjustment knob counterclockwise until it stops.
- Lower mower linkage with attachment lift control.
- Be sure belt tension rod is in disengaged position.
- Install belt into electric clutch pulley groove.
- Place the suspension arms on outward pointing deck pins. Retain with double loop retainer spring with loops up as shown.
- Install front plate assembly to tractor suspension brackets and retain with single loop retainer springs as shown.
- Position front plate assembly between front mower brackets. Raise deck and plate assembly to align holes and insert flanged pins. Secure pins with double loop retainer springs between the plate assembly and mower brackets.

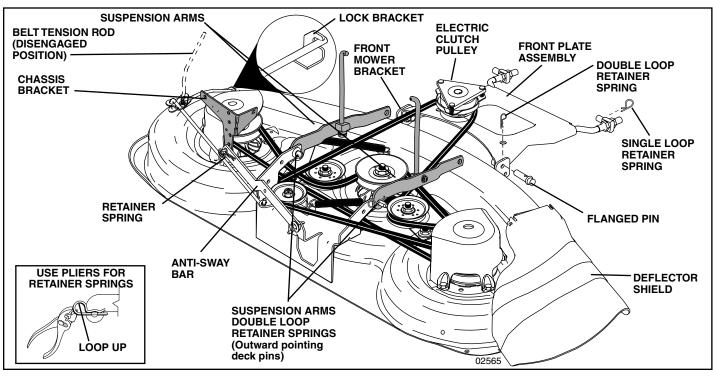


FIG. 18

NOTE: To assist in locating hole in flanged pin, the hole in pin is inline with notch on head of pin. If necessary, move mower sideto-side to give space between plate and mower brackets.

IMPORTANT: CHECK BELT FOR PROPER ROUTING IN ALL MOWER PULLEY GROOVES.

Engage belt tension rod by pushing rod into locking bracket.



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

- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- If equipped, turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise deck to highest position.

### TO LEVEL MOWER HOUSING

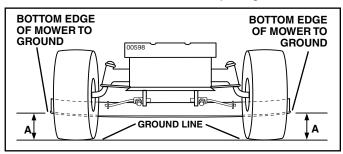
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

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

- Raise mower to its highest position.
- Measure height from bottom edge of mower to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- If adjustment is necessary, make adjustment on one . side of mower only.
- To raise one side of mower, tighten lift link adjustment • nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

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

Recheck measurements after adjusting.





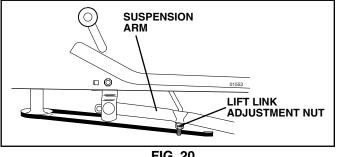


FIG. 20

FRONT-TO-BACK ADJUSTMENT (See Figs. 21 and 22) IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

To obtain the best cutting results, the mower blades should be adjusted so the front tip is approximately 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.

Check adjustment on right side of tractor. Position any blade so the tip is pointing straight forward. Measure distance "B" at front and rear tip of the blade.

- Before making any necessary adjustments, check that both front plate links are equal in length.
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of blade, loosen nut "C" on both front links an equal number of turns.

NOTE: Each full turn of nut "C" will change distance. "B" by approximately 3/16".

- When distance "B" is 1/8" to 1/2" lower at front than rear, tighten nut "D" against trunnion on both front links.
- To raise front of blade, loosen nut "D" from trunnion on both front links. Tighten nut "C" on both front links an equal number of turns. The two front links must remain equal in length.
- When distance "B" is 1/8" to 1/2" lower at front than rear, tighten nut "D" against trunnion on both front links.
- Recheck side-to-side adjustment.

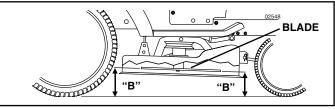
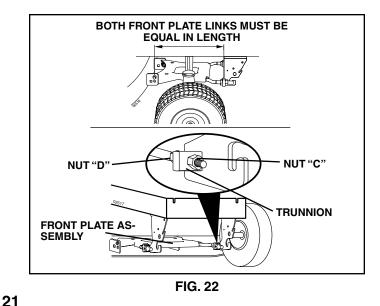


FIG. 21



#### TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL (See Fig. 23)

- Park tractor on a level surface. Engage parking brake.
- Lower mower to its lowest position.
- Disengage belt tention rod from lock bracket.

# A

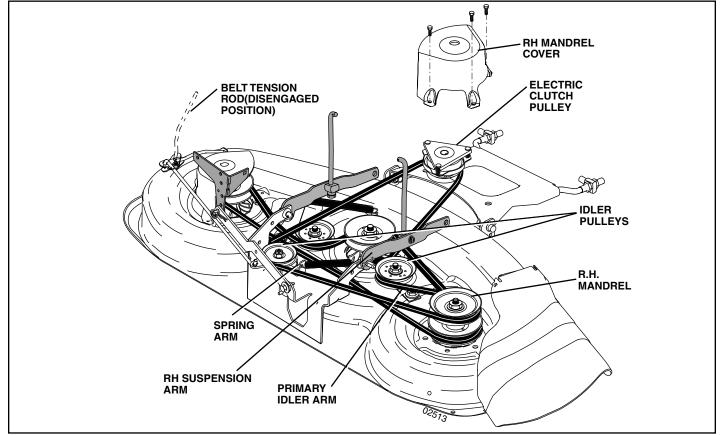
### CAUTION: Rod is spring loaded. Have a tight grip on rod and release slowly.

- Remove screws from R.H. mandrel cover and remove cover.
- Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
- Disconnect R.H. suspension arm from rear deck bracket by removing retainer spring.
- Roll belt over the top of R.H. mandrel pulley carefully.

- Remove belt from electric clutch pulley.
- Remove belt from idler pulleys.
- Check primary idler arm and two idlers to see that they rotate freely.
- Be sure spring is securely hooked to primary idler arm and spring arm.

#### MOWER DRIVE BELT INSTALLATION

- Install belt in both idlers.
- Install new belt onto electric clutch pulley.
- Roll belt into upper groove of R.H. mandrel pulley carefully.
- Carefully check belt routing making sure belt is in the grooves correctly.
- Reconnect R.H. suspension arm to rear deck bracket with retainer spring.
- Reassemble R.H. mandrel cover.
- Engage belt tension rod by pushing rod into locking bracket.



#### FIG. 23

#### TO REPLACE MOWER BLADE (SECONDARY) DRIVE BELT (See Fig. 24)

Park the tractor on level surface. Engage parking brake.

- Remove mower (See "TO REMOVE MOWER" in this section of manual).
- Remove screws from R.H. and L.H. mandrel covers and remove covers.

#### REMOVE MOWER DRIVE BELT

(Refer to "TO REMOVE MOWER DRIVE BELT" illustration in this section of manual).

• Carefully roll belt over the top of R.H. mandrel pulley.

- Remove belt from idler pulleys.
- Check primary idler arm and two idlers to see that they rotate freely.
- Be sure spring is securely hooked to primary idler arm and spring arm.

REMOVE MOWER BLADE (SECONDARY) DRIVE BELT

- Carefully roll belt off L.H. mandrel pulley.
- Remove belt from center mandrel pulley, idler pulley, and R.H. mandrel pulley.
- Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.
- Check secondary idler arm and idler pulley to see that they rotate freely.

22

• Be sure spring is hooked in secondary idler arm and secondary spring arm.

INSTALL NEW MOWER BLADE (SECONDARY) DRIVE BELT

- Install new belt in lower groove of R.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.
- Carefully roll belt over L.H. mandrel pulley. Make sure belt is in all grooves properly.

#### REINSTALL MOWER DRIVE BELT

(Refer to "TO REMOVE MOWER DRIVE BELT" illustration in this section of manual).

- Install belt into upper groove of R.H. mandrel pulley and around both idlers. Pull belt to front of mower to remove slack.
- Reinstall mandrel covers and securely tighten all screws.
- Carefully check belt routing making sure belt is in all grooves correctly.
- Reinstall mower to tractor (See "TO INSTALL MOWER" in this section of manual).

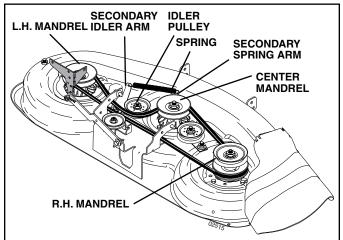


FIG. 24

# TO CHECK AND ADJUST BRAKE (See Fig. 25)

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

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 checked and adjusted.

#### TO CHECK BRAKE

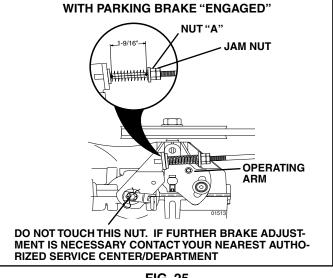
- Park tractor on a level, dry concrete or paved surface, depress clutch/brake pedal all the way down and engage parking brake.
- Disengage transmission by placing freewhel control in "transmission disengaged" position. Pull freewheel control out and into the slot and release so it is held in the disengaged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

The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, the brake needs to be adjusted or the pads need to be replaced.

#### TO ADJUST BRAKE

- Depress clutch/brake pedal all the way down and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.

- If distance is other than 1-9/16", loosen jam nut and turn nut "A" until distance becomes 1-9/16". Retighten jam nut against nut "A".
- Engage transmission by placing freewheel control in "transmission engaged" position.
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than five (5) feet in highest gear, further maintenance is necessary. Replace brake pads or contact a qualified service center.



#### FIG. 25

# TO REPLACE MOTION DRIVE BELT (See Fig. 26)

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.
- Remove clutch locator.
- Remove belt from stationary idler and clutching idler.
- Remove belt downward from engine pulley and around electric clutch.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- Remove belt from center span keeper and pull belt away from tractor.

#### BELT INSTALLATION -

- Carefully work new belt down around transmission cooling fan and onto the input pulley.
- Slide belt into the center span keeper.
- Pull belt toward front of tractor and roll belt around electric clutch and onto engine pulley.
- Install belt through stationary idler and clutching idler.
- Reinstall clutch locator and tighten nut securely.
- Reconnect clutch harness.
- 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).

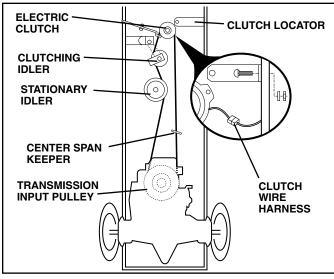


FIG. 26

#### TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT (See Fig. 27)

The motion control lever has been preset at the factory and adjustment should not be necessary.

- Loosen adjustment bolt in front of the right rear wheel, and lightly tighten.
- Start engine and move motion control lever until tractor does not move forward or backward.
- Hold motion control lever in that position and turn engine off.
- While holding motion control lever in place, loosen the adjustment bolt.
- Move motion control lever to the neutral (N) (lock gate) position.
- Tighten adjustment bolt securely.

**NOTE:** If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position.

After above adjustment is made, if the tractor still creeps forward or backward while motion control lever is in neutral position, follow these steps:

- Loosen the adjustment bolt.
- Move the motion control lever 1/4 to 1/2 inch in the direction it is trying to creep.
- Tighten adjustment bolt securely.
- Start engine and test.
- If tractor still creeps, repeat above steps until satisfied.

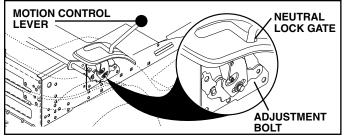


FIG. 27

#### TRANSMISSION REMOVAL/REPLACEMENT

Should your transmission require removal for service or replacement, it should be purged after reinstallation and before operating the tractor. See "PURGETRANSMISSION" in the Operation section of this manual.

#### TO ADJUST STEERING WHEEL ALIGN-MENT

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

### FRONT WHEEL TOE-IN/CAMBER

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

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

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

**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.

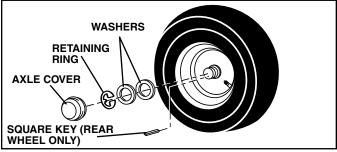
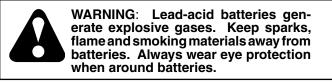


FIG. 28

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



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.

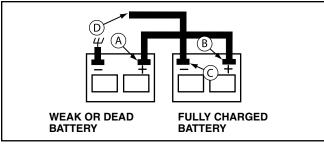
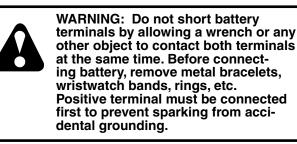


FIG. 29

#### **REPLACING BATTERY (See Fig. 30)**



- Lift hood to raised position.
- Disconnect BLACK battery cable first 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 to positive (+) terminal with hex bolt and keps nut as shown. Tighten securely. Slide terminal cover over terminal.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keps nut. Tighten securely.
- Close hood.

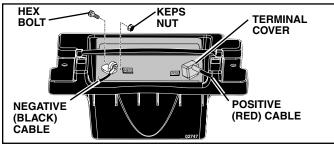


FIG. 30

#### TO REPLACE HEADLIGHT BULB

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

#### INTERLOCKS AND RELAYS

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

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

#### TO REPLACE FUSE

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

### TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 31)

- 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.

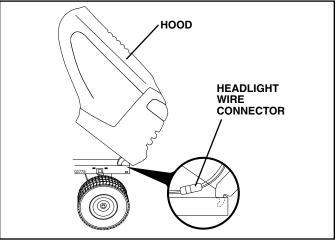


FIG. 31

### 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 MOIST URE WHICH 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.

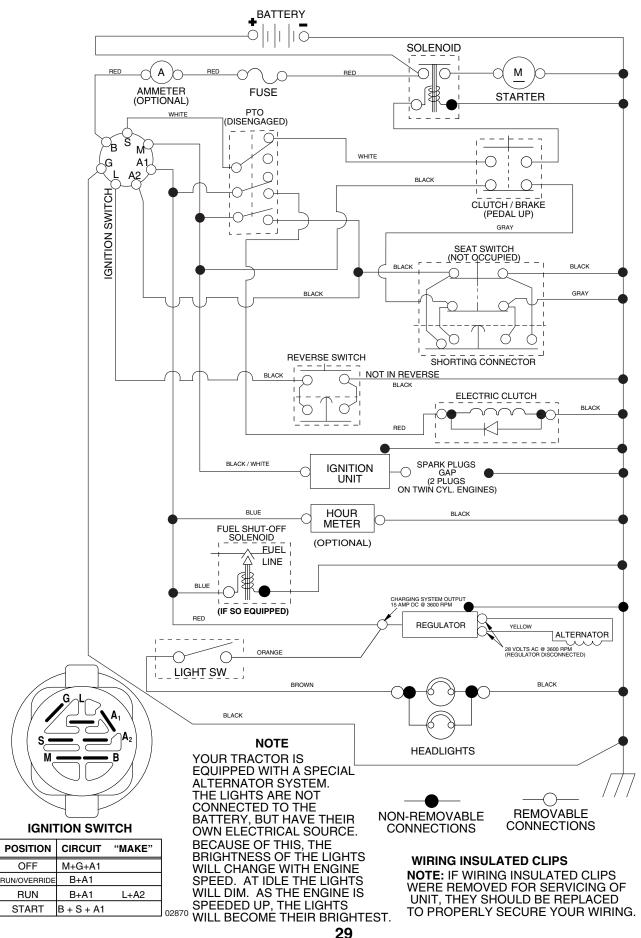
# **TROUBLESHOOTING POINTS**

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>Dirty air filter.</li> <li>Dirty fuel filter.</li> <li>Water in fuel.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> <li>Engine valves out of adjustment.</li> </ol>	<ol> <li>Fill fuel tank.</li> <li>See "TO START ENGINE" in Operation section.</li> <li>Wait several minutes before attempting to start.</li> <li>Replace spark plug.</li> <li>Clean/replace air filter.</li> <li>Replace fuel filter.</li> <li>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> <li>Engine valves out of adjustment.</li> </ol>	<ol> <li>Clean/replace air filter.</li> <li>Replace spark plug.</li> <li>Recharge or replace battery.</li> <li>Replace fuel filter.</li> <li>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	<ol> <li>Weak or dead battery.</li> <li>Corroded battery terminals.</li> <li>Loose or damaged wiring.</li> <li>Faulty solenoid or starter.</li> </ol>	<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	<ol> <li>Cutting too much grass/too fast.</li> <li>Throttle in "CHOKE" position.</li> <li>Build-up of grass, leaves and trash under mower.</li> <li>Dirty air filter.</li> <li>Low oil level/dirty oil.</li> <li>Faulty spark plug.</li> <li>Dirty fuel filter.</li> <li>Stale or dirty fuel.</li> <li>Water in fuel.</li> <li>Spark plug wire loose.</li> <li>Dirty engine air screen/fins.</li> <li>Dirty/clogged muffler.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> </ol>	<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/replace muffler.</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	<ol> <li>Worn, bent or loose blade.</li> <li>Bent blade mandrel.</li> <li>Loose/damaged part(s).</li> </ol>	<ol> <li>Replace blade. Tighten blade bolt.</li> <li>Replace blade mandrel.</li> <li>Tighten loose part(s). Replace damaged parts.</li> </ol>

# **TROUBLESHOOTING POINTS**

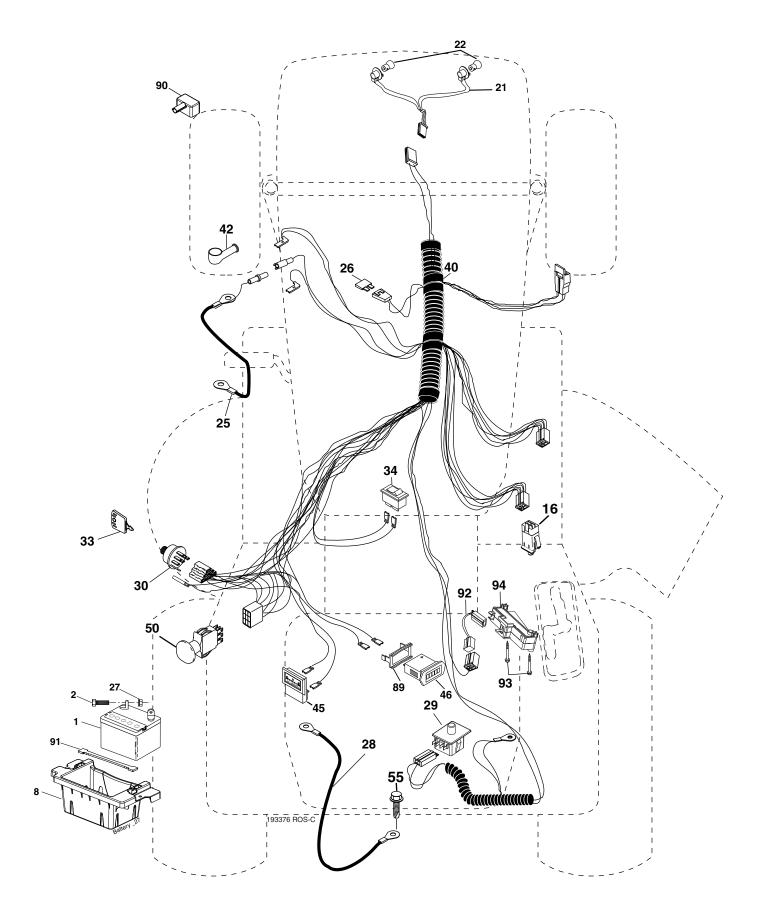
PROBLEM	CAUSE	CORRECTION			
Engine dies when tractor is shifted into reverse	<ol> <li>Reverse operation system (ROS) is not "ON" while mower or other attachment is engaged.</li> </ol>	1. Turn ignition key to ROS "ON" position. See Operation section.			
Engine continues to run when operator leaves seat with attachment clutch engaged	1. Faulty operator-safety presence control system.	<ol> <li>Check wiring, switches and connections. If not corrected, contact an authorized service center/ department.</li> </ol>			
Poor cut - uneven	<ol> <li>Worn, bent or loose blade.</li> <li>Mower deck not level.</li> <li>Buildup of grass, leaves, and trash under mower.</li> <li>Bent blade mandrel.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol> <li>Replace blade. Tighten blade bolt.</li> <li>Level mower deck.</li> <li>Clean underside of mower housing.</li> <li>Replace blade mandrel.</li> <li>Clean around mandrels to open vent holes.</li> </ol>			
Mower blades will not rotate	<ol> <li>Obstruction in clutch mechanism.</li> <li>Worn/damaged mower drive belt.</li> <li>Frozen idler pulley.</li> <li>Frozen blade mandrel.</li> </ol>	<ol> <li>Remove obstruction.</li> <li>Replace mower drive belt.</li> <li>Replace idler pulley.</li> <li>Replace blade mandrel.</li> </ol>			
Poor grass discharge	<ol> <li>Engine speed too slow.</li> <li>Travel speed too fast.</li> <li>Wet grass.</li> <li>Mower deck not level.</li> <li>Low/uneven tire air pressure.</li> <li>Worn, bent or loose blade.</li> <li>Buildup of grass, leaves and trash under mower.</li> <li>Mower drive belt worn.</li> <li>Blades improperly installed.</li> <li>Improper blades used.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol> <li>Place throttle control in "FAST" position.</li> <li>Shift to slower speed.</li> <li>Allow grass to dry before mowing.</li> <li>Level mower deck.</li> <li>Check tires for proper air pressure.</li> <li>Replace/sharpen blade. Tighten blade bolt.</li> <li>Clean underside of mower housing.</li> <li>Replace mower drive belt.</li> <li>Reinstall blades sharp edge down.</li> <li>Replace with blades listed in this manual.</li> <li>Clean around mandrels to open vent holes.</li> </ol>			
Headlight(s) not working (if so equipped)	<ol> <li>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	<ol> <li>Bad battery cell(s).</li> <li>Poor cable connections.</li> <li>Faulty regulator (if so equipped).</li> <li>Faulty alternator.</li> </ol>	<ol> <li>Replace battery.</li> <li>Check/clean all connections.</li> <li>Replace regulator.</li> <li>Replace alternator.</li> </ol>			
Loss of drive	<ol> <li>Freewheel control in "disengaged" position.</li> <li>Motion drive belt worn, damaged, or broken.</li> <li>Air trapped in transmission during shipment or servicing.</li> </ol>	<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"	<ol> <li>Engine throttle control not set between half and full speed (fast) position before stopping engine.</li> </ol>	<ol> <li>Move throttle control between half and full speed (fast) position before stopping engine.</li> </ol>			

# TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 SCHEMATIC



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TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 ELECTRICAL

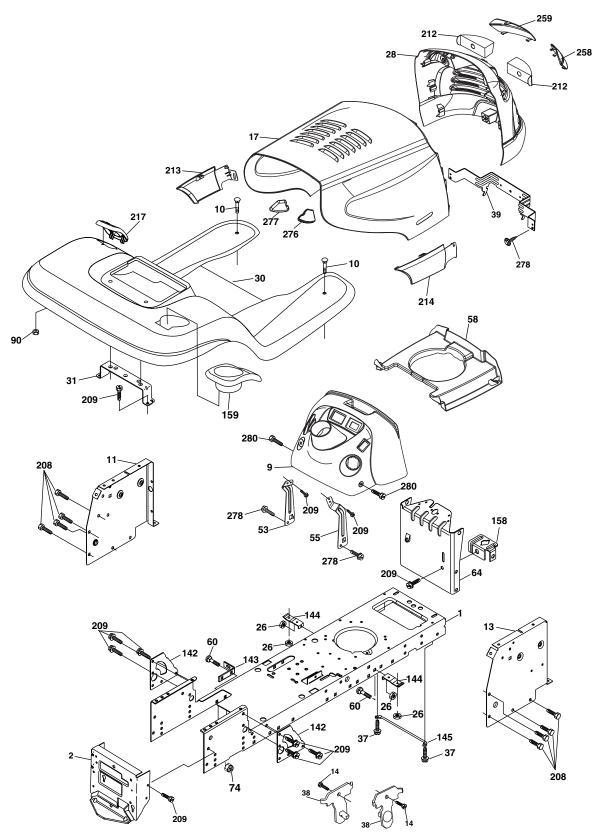


TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 ELECTRICAL

KEY	PART	
NO.		DESCRIPTION
1	532 14 49-27	
2 8		Bolt Hex_Hd 1/4-20 unc x 3/4
8	532 18 64-91	
16		Switch Interlock
21	532 18 37-59	Harness Socket Light
22		Bulb, Light # 1156
25	532 17 89-09	Cable Battery
26	532 17 51-58	
27 28		Nut Keps Hex 1/4-20 unc Cable Ground 21" Blk 6 Ga.
20 29	532 14 54-91	
30	532 19 27-49	
33		Key Ign Molded Generic
34		Switch Light/Reset
40	532 19 33-76	
42		Cover Terminal Red
45	532 12 28-22	
46	532 16 96-35	Hourmeter Snap-In
50	532 17 46-51	
55	817 49 05-08	Screw Thdrol 5/16-18 x 1/2
89	532 16 96-39	Bracket Snap-In Hourmeter
90		Cover Terminal Battery
91		Strap Battery
92		Harness Pigtail Reverse Switch
93		Screw Plastite 10-14 x 2.0
94	532 19 18-34	Module Revers ROS
NOTE		

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

TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 CHASSIS

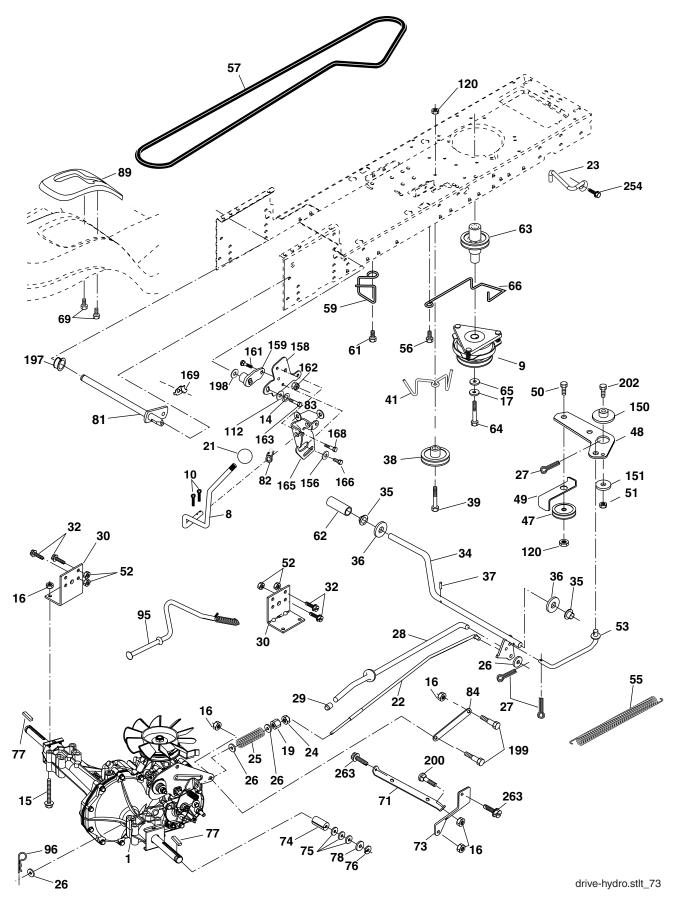


chassis\_elite husqy\_4

TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 **CHASSIS** 

KEY NO.	PART NO.	DESCRIPTION			
NO. 1 2 9 10 11 13 14 17 20 28 30 31 37 38 93 55 58 60 44 90 142 344 158 98 92 12 213 214 7258 9277 280	532 17 46-19 532 17 65-54 532 19 54-20 872 14 06-08 532 17 49-96 532 18 17-19 817 49 06-08 532 18 99-77 532 16 20-26 873 80 06-00 532 18 82-69 532 19 48-06 532 13 99-76 817 49 05-08 532 17 57-10 532 17 47-14 532 18 83-73 532 18 83-72 532 18 44-63 872 14 06-06 532 17 47-14 532 17 47-14 532 18 83-73 532 18 66-89 532 17 55-82 532 15 65-24 532 16 20-37 532 18 82-67 532 18 99-78 532 18 99-74 532 18 99-74 532 18 92-74 532 18 92-75 532 19 16-11	Chassis Drawbar Dash Bolt Carriage 3/8-16 x 1 Panel Dash Lh Panel Dash Rh Screw Thdrol 3/8-16 x 1/2 Hood Plate Battery Nut Lock Hex W/Ins 3/8-16 unc Grille/Lens Asm. (Includes Key Nos. 212, 258-259) Fender Footrest Bracket Fender Screw Thdrol 6/16-18 x 1/2 TYT Bracket Fender Screw Thdrol 6/16-18 x 1/2 TYT Bracket Asm Pivot Mower Rear Bracket Pivot Bracket Dash LH Bracket Dash LH Bracket Dash RH Duct Air Bolt RDHD Sqnk 3/8-16 unc x 3/4 Dash Lower STLT Nut Crownlock 3/8-16 unc Nut Self Thd Wsh - HD 1/4 Zinc Plate Reinforcement STLT Bracket Swaybar Chassis Bracket Footrest Step-thru Rod Pivot Chassis/Hood Bracket Parking Brake Cupholder Screw 3/8-16 x 1/2 Screw Hexwsh Thdr 3/8-16 x 3/4 Insert Lens Reflective Skirt Side LH Skirt Side RH Console Fuel Window Lens RH Lens LH Bumper Hood RH Bumper Hood RH Bumper Hood RH Bumper Hood LH Screw 10 x 3/4 Single Lead-Hex Screw 3/8-16 x 1			
<b>NOTE:</b> All component dimensions given in U.S. inches 1 inch = 25.4 mm					

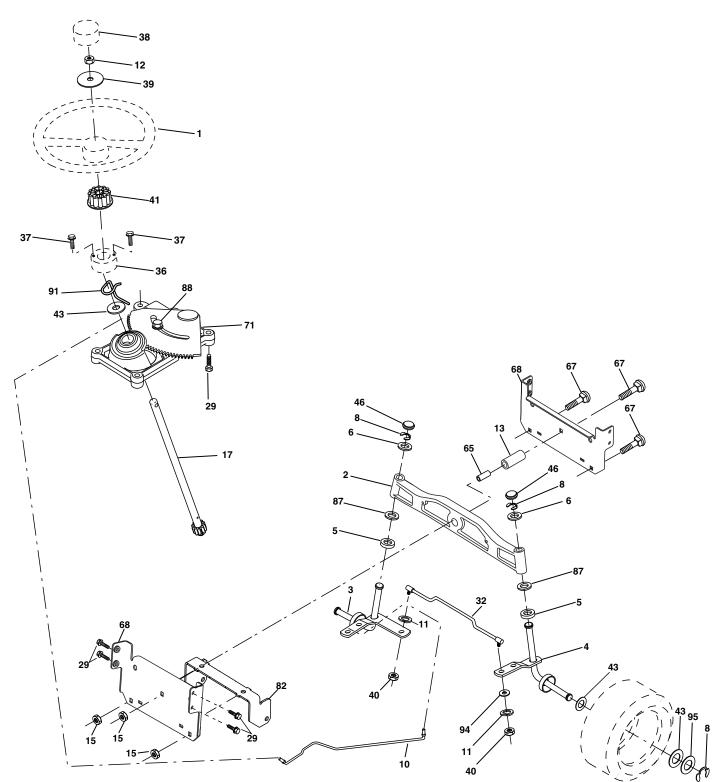
TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 DRIVE



### TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Transaxle Hydro Gear 314-0510 (Order Parts From Transaxle Manu- facturer)	63 64 65	532 17 39-37 810 04 07-00	
8	532 19 25-02		66	532 15 47-78	Keeper Belt Engine
9		Clutch Ogura	69		Screw Hex Wsh Hi-Lo 1/4 x 1/2 unc
10		Pin Cotter 1/8 x 1 CAD	71		Strap Torque Lh Hydro
14	810 04 04-00	Washer Lock Hvy Helical	73		Strap Torque Rh Hydro
15	874 49 05-44	Bolt, Hex FLGHD 5/16-18 Gr. 5	74	532 13 70-57	
16		Nut Lock Hex W/Ins 5/16-18 unc	75		Washer 25/32 x 1-1/4 x 16 Ga.
17	532 12 61-97		76	812 00 00-01	
19		Nut Lock Hex W/Wsh 3/8-16 unc	77	532 12 35-83	Key, Square
21	532 14 08-45		78		Washer 25/32 x 1-5/8 x 16 Ga.
22		Rod, Brake Hydro	81		Shaft Asm. Cross Hydro
23		Bracket Anti Rotation	82 83		Spring Torsion T/A Washer 17/32 x 3/4 x 16 Ga.
24	873 35 06-00		84		Link Transaxle
25		Spring, Brake Rod	89		Console, Shift
26 27	819 13 13-16		95		Control Asm Bypass Hydro
27 28		Pin Cotter 1/8 x 3/4 CAD. Rod, Parking Brake	96		Retainer Spring 1" Zinc/Cad
28 29		Cap, Parking Brake	112		Washer $9/32 \times 3/4 \times 10$ Ga.
30		Bracket, Transaxle	120		Nut Lock Flg 3/8-16 unc
32		Bolt Hex Hd 5/16-18 unc x 3/4	150		Spacer Retainer
34		Shaft, Foot Pedal	151		Washer 13/32 x 2 x 10 Ga.
35		Bearing, Nylon	156	532 16 60-02	Washer Srrted 5/16 ID x 1.125
36	819 21 16-16		158		Bracket Shift Mount
37	532 12 49-63	Pin, Roll	159	532 18 39-00	
38	532 17 91-14	Pulley, Composite	161	872 14 04-06	Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5
39	872 11 06-22	Bolt Ådhd 3/8-16 unc x 2-3/4 Gr. 5	162		Nut Crownlock 1/4-20 unc
41		Keeper, Belt Idler	163		Bolt Hex Fin 1/4-20 unc x 1 Gr. 5
47		Pulley, Idler, V-Groove	165		Bracket Pivot Lever
48		Bellcrank Clutch Grnd Drv STL	166		Screw 5/16-18 x 5/8
49		Retainer, Belt	168 169		Bolt Shoulder 5/16-18 x .561
50		Bolt Carr Sh 3/8-16 x 1-1/2 Gr. 5	109		Plate Fastening Lt Nyliner Snap-In 5/8" ID
51		Nut Crownlock 3/8-16 unc	197		Washer Nyl 7/8 ID x .105
52		Nut Crownlock 5/16-18 unc	199		Bolt Shoulder 5/16-18 unc
53 55	532 10 57-10		200		Bolt Rdhd Sqnk 5/16-18 unc x 1
55 56		Spring, Return, Clutch Screw 3/8-16 x 1-1/4	202		Bolt Carr Sh 3/8-16 x 1-3/4 Gr. 5
50 57		V-Belt, Ground Drive	254		Screw 3/8-16 x 1
59		Keeper, Center Span	263		Thdrol Screw 3/8-16 x 3/4
61		Screw 3/8-16 x .875			ent dimensions given in U.S. inches
62	532 12 48-72		NOTE	1  inch = 25.4	

# TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 STEERING ASSEMBLY



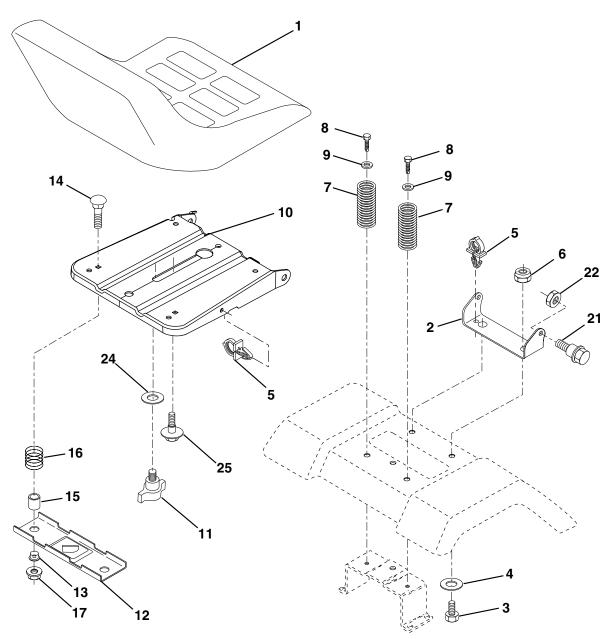
steering\_pl.lt\_54

TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION		
1 2 3 4 5 6 8 10 11 2 3 2 3 6 7 8 9 10 11 2 3 2 3 6 7 8 9 10 11 2 3 5 7 8 9 10 11 2 3 2 3 6 7 8 9 10 11 2 3 5 7 8 9 10 11 2 3 6 7 8 9 10 11 2 3 7 8 9 10 11 11 11 11 11 11 11 11 11 11 11 11	532 18 47-06 532 16 98-40 532 16 98-39 532 12 49-31 532 12 17-48 812 00 00-29 532 17 51-21 810 04 06-00 873 94 08-00 532 13 65-18 532 14 52-12 532 14 52-12 532 17 78-83 817 00 06-12 532 18 05-80 532 15 51-05 532 15 29-27 532 15 29-27 532 15 29-27 532 15 29-27 532 15 29-27 532 15 29-27 532 12 17-49 532 12 17-49 532 16 03-67 872 11 06-18 532 16 98-35 532 17 51-46 532 17 55-33 819 12 14-14 532 18 89-67	Spindle Asm LH Spindle Asm RH Bearing Race Thrust Harden Washer 25/32 x 1-5/8 x 16 Ga. Ring Klip #t5304-75 Link Drag Washer Lock Hvy HIcl Spr 3/8 Nut Hex Jam Toplock 1/2-20 unf Spacer Brg Axle Front Nut Hex Flange Lock Shaft Asm Steering Screw 3/8-16 x .75 Rod Tie Bushing Strg Screw Insert Cap Strg Wh Washer 9/16 ID x 2-3/8 OD 12 G Crownlock nut Adaptor Wheel Strg Washer 25/32 x 1 1/4 x 16 Ga. Cap Spindle Spacer Brace Axle Bolt RDHD SQNK 3/8-16 x 2 1/4 Axle, Brace Steering Asm Bracket Susp Chassis Front Washer Flat .781 x 1-1/2 x .14 Bolt Shoulder 7/16-20 unc Clip Steering Rod Tie Washer Harden		
NOTE: All component dimensions given in U.S. inch				

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

## TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 SEAT ASSEMBLY



seat\_lt.knob\_13

## KEY PART NO. NO. DESCRIPTION

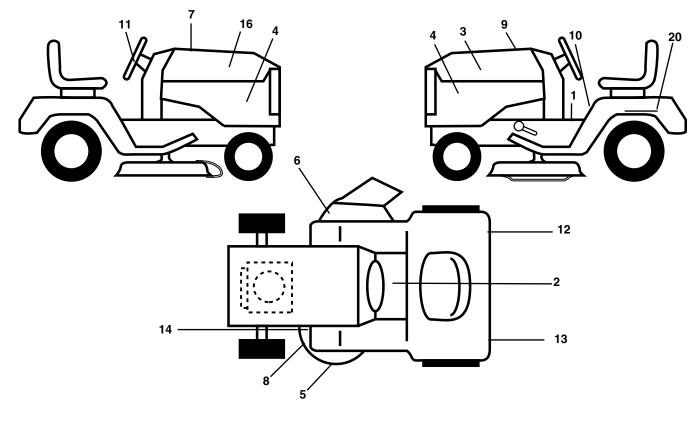
- 1 532 18 87-15 Seat
- 2 532 14 05-51 Bracket Pivot Seat 8 720
- 3 871 11 06-16 Bolt Fin Hex 3/8-16 unc x 1
- 4 819 13 16-10 Washer 13/32 x 1 x 10 Ga.
- 5 532 14 50-06 Clip Push-In
- 6 873 80 06-00 Nut Hex w/Ins. 3/8-16 unc
- 7 532 12 41-81 Spring Seat Cprsn 2 250 Blk Zi
- 8 817 00 06-16 Screw 3/8-16 x 1.5 Smgml
- 9 819 13 16-14 Washer 13/32 x 1 x 14 Ga.
- 10 532 18 24-93 Pan Seat
- 11 532 16 63-69 Knob Seat
- 12 532 17 46-48 Bracket Mounting Switch

KEY	PART
NO	

## NO. NO. DESCRIPTION

- 13 532 12 12-48 Bushing Snap Blk Nyl 50 Id
- 14 872 05 04-12 Bolt Rdhd Sqnk 1/4-20 x 1-1/2
- 15 532 12 12-49 Spacer Split 28x 88
- 16 532 12 37-40 Spring Cprsn
- 17 532 12 39-76 Nut Lock 1/4 Lge Flg Gr. 5 Zinc
- 21 532 17 18-52 Bolt Shoulder 5/16-18 unc
- 22 873 80 05-00 Nut Hex Lock W/Ins 5/16-18
- 24 819 17 19-12 Washer 17/32 x 1-3/16 x 12 Ga.
- 25 532 12 70-18 Bolt Shoulder 5/16-18 x 62
- **NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

# TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 DECALS

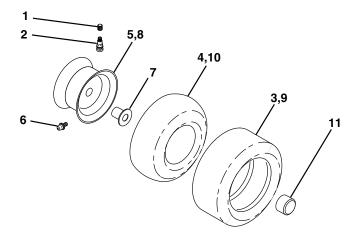


## KEY PART

NO.	NO.	DESCRIPTION
1	532 19 39-39	Decal Oper
2	532 18 92-43	Decal Dash
3	532 18 89-19	Decal Hood LH
4	532 19 63-30	Decal Side Panel Logo
5	532 17 84-82	Decal Deck HVY DTY 10G
6	532 17 05-63	Decal Warning, Keep Hand Away
7	532 18 09-41	Decal Cust. Resp.
8	532 17 85-02	Decal Deck Caut. Prem.
9	532 19 43-71	Decal Replacement Parts
10	532 15 71-40	Decal Fender Danger E/F

11 532 18 89-25 Decal Ins Strg Whl

## WHEELS AND TIRES



KEY	PART
NO.	NO.

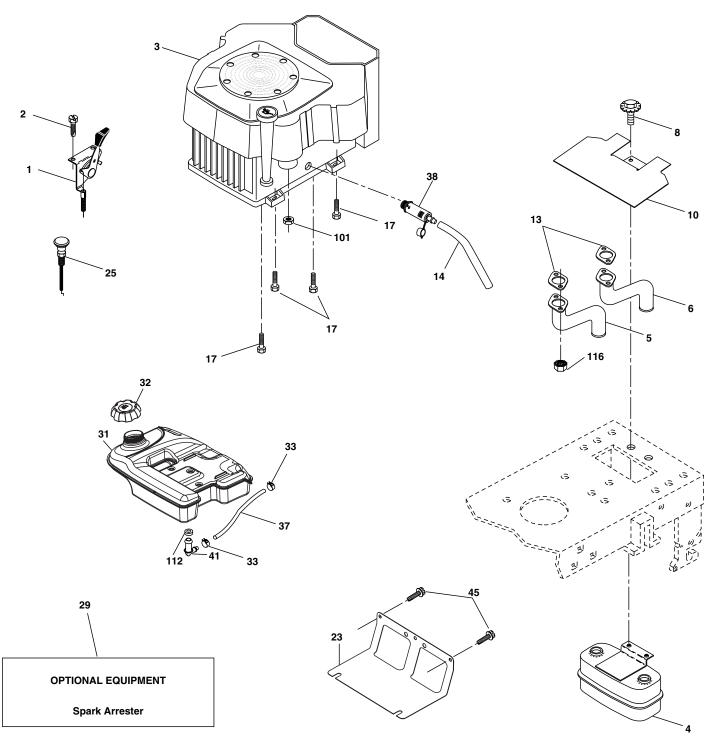
## NO. DESCRIPTION

- 12 532 17 35-87 Decal Fend Reflector Rh
- 13 532 17 35-89 Decal Fend Reflector Lh
- 14 153 27 52-91 Decal V-Belt Schematic
- 16 532 18 89-18 Decal Hood Rh
- 20 532 14 50-05 Decal Bat Dan/Psn
- -- 532 16 69-60 Decal By Pass Lt Hydro
- -- 532 13 73-11 Decal Handle Lift
- -- 532 18 82-52 Pad Footrest LH
- -- 532 18 82-53 Pad Footrest RH
- -- 532 19 54-05 Manual Owner's (English)
- - 532 19 54-06 Manual Owner's (French)

KEY	PART	
NO.	NO.	DESCRIPTION

- 1 532 05 91-92 Cap Valve Tire
- 2 532 06 51-39 Stem Valve
- 3 532 10 62-22 Tire F T 15 x 6 0 6 Service
- 4 532 05 99-04 Tube Front (Service Item Only)
- 5 532 13 83-36 Rim Asm 6" front Service
- 6 532 12 49-57 Fitting Grease (Front Wheel Only)
- 7 532 12 49-59 Bearing Flange (Front Wheel nly)
- 8 532 13 83-37 Rim Asm 8" rear Service
- 9 532 12 20-82 Tire R T 20 x 10-8 Service
- 10 532 12 49-26 Tube Rear (Service Item Only) 11 532 17 50-39 Cap Axle Blk 1 50 x 1 00
- - 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. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 ENGINE



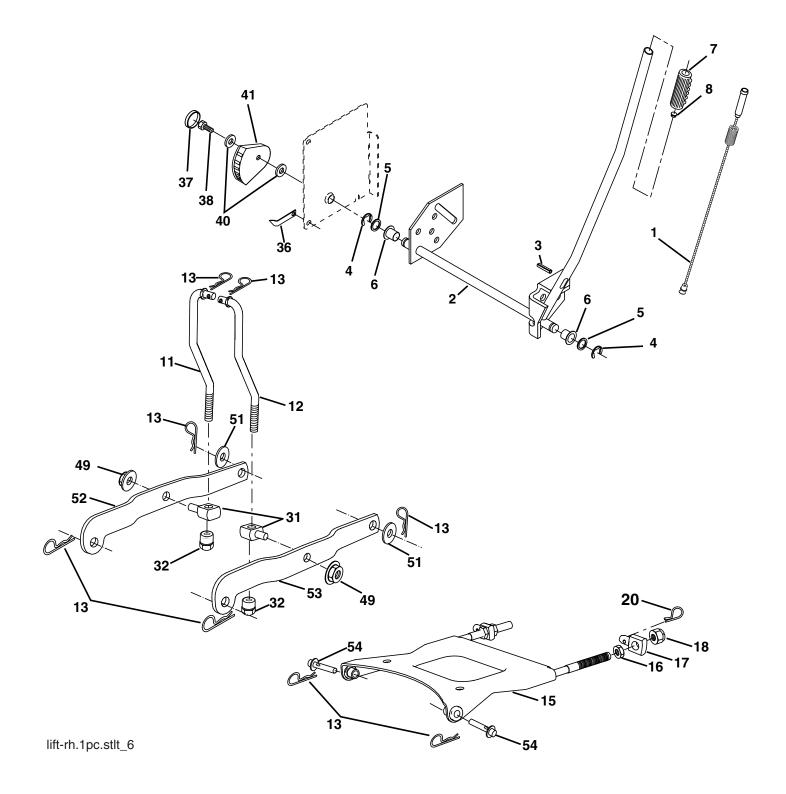
engine-ko.twin\_18

KEY NO.	PART NO.	DESCRIPTION		
1		Control, Throttle		
2	817 72 04-08	Screw Hex Thd Cut 1/4-20 x 1/2		
3		Engine Kohler Model CV740		
		(Order Parts from Engine Mfg.)		
4	532 14 97-23			
5 6 8		Exhaust Tube LH		
6		Exhaust Tube RH		
		Bolt 5/16-18 unc x 3/4 w/Sems		
10	532 14 66-29	Shield Heat Muffler		
13		Muffler Gasket (Order from Eng. Mfgr.)		
14		Tube Oil Drain		
17		Screw 3/8-16 x 1-1/2		
23		Shield, Browning/Debris Guard		
25		Control Choke		
29		Arrester, Spark		
31	532 17 90-22			
32		Cap Gauge, Fuel		
33		Clamp, Hose Blk		
37	532 14 21-58			
38		Plug Drain Oil Easy (Order from Eng. Mfgr.)		
41		Stem Tank Fuel		
45		Screw Hex Wsh Thdrol 3/8-16 x 3/4		
		Nut Flange M8-1.25		
112	532 12 49-52	Bushing		
ΝΟΤΙ		ant dimonsions given in LLS inches		
<b>NOTE:</b> All component dimensions given in U.S. inches				

1 inch = 25.4 mm For engine service and replacement parts, call the toll free

number for your engine manufacturer listed below:

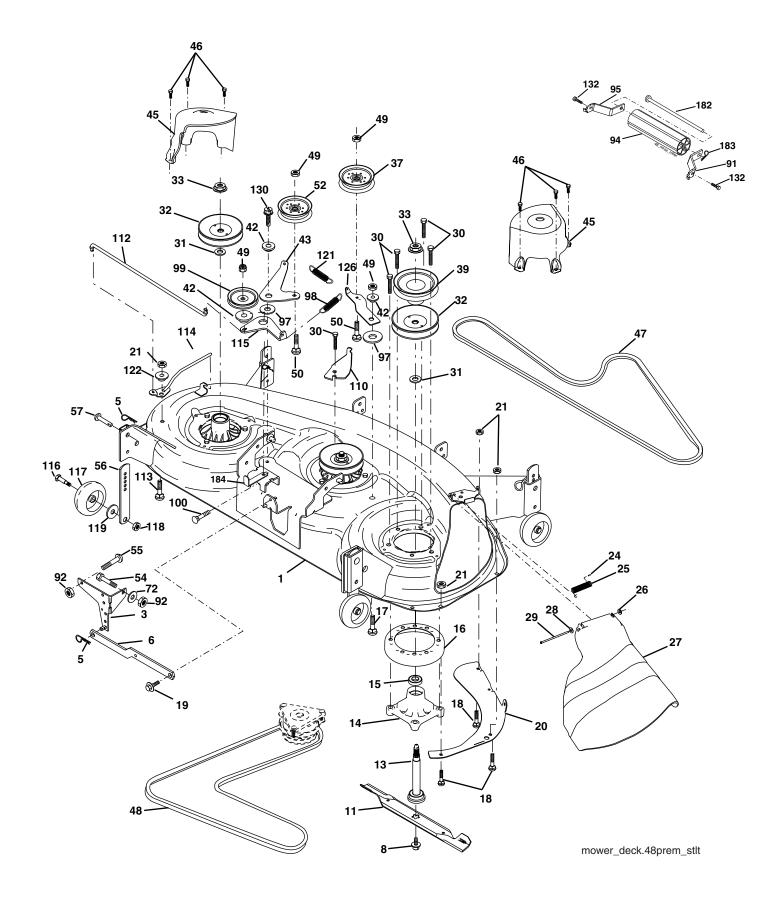
Briggs & Stratton	1-800-233-3723		
Kohler Co.	1-800-544-2444		
Tecumseh Products	1-800-558-5402		
Honda Engines	1-800-426-7701		
Kawasaki	1-949-460-5688		



	PART NO.	DESCRIPTION
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\1\\1\\2\\3\\1\\5\\6\\7\\8\\1\\1\\2\\3\\2\\4\\5\\5\\5\\3\\4\\4\\1\\9\\5\\5\\5\\5\\5\\5\\5\\5\\5\\5\\5\\5\\5\\5\\5\\5\\5\\5$	532 15 94-71 532 10 57-67 812 00 00-02 819 21 16-21 532 12 01-83 532 12 56-31 532 12 45-26 532 17 53-70 532 17 53-70 532 17 55-62 873 35 08-00 532 17 55-62 873 35 08-00 532 16 35-52 532 11 08-07 819 13 10-16 532 16 40-24 532 16 40-24 532 16 45-43 873 35 06-00 532 13 80-57 532 15 02-33 532 17 59-94 532 15 50-97 532 12 39-35 817 06 05-16 819 11 24-10 532 15 50-98 532 14 52-12 532 11 04-52 819 17 14-16 532 17 53-78	E Ring #5133-62 Washer 21/32 x 1 x 21 Ga. Bearing Nylon Blk 629 ld Grip Handle Button Plunger Link Lift LH Link Lift RH Retainer Spring Plate Asm. Suspension Front Nut Jam Hex 1/2-13 unc Trunnion Front Susp. Nut Lock w/Wsh 1/2-13 unc Retainer Spring Nut Special Washer 13/32 x 5/8 x 16 Ga. Spring Retainer Clip Rod Adj Lift Nut Hex Jam 3/8-16 unc Knob Inf 3/8-16 unc Blk W/sym Trunnion Infin Height Trunnion Susp. Arm Nut Lift Link 7/16-20 Pointer Height Indicator Plug Hole Blk 1.485/1.515 Dia. Screw 5/16-18 x 1 Washer 11/32 x 1-1/2 10 Ga. Indicator Height STLT Nut Hex Flange Lock Nut PUsh Phos & Oil Washer 17/32 x 7/8 x 16 Ga. Arm Susp. Rear LH Arm Susp. Rear RH

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

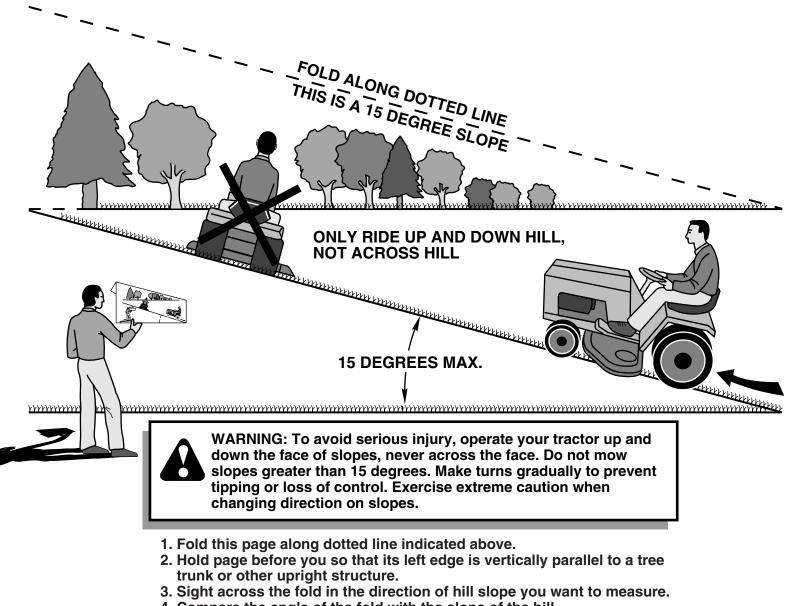
# TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 MOWER DECK



## TRACTOR - MODEL NO. YTH2748 (96013001000), PRODUCT NO. 960 13 00-10 MOWER DECK

1       532 18 18-48 Deck Weldment Mower 48       532 13 80-17 Bracket Asm., Sway Bar       532 13 80-17 Bracket Asm., Sway Bar       54       874 78 06-16 Bolt Fin Hex 3/8-16 x 1         5       532 12 74-70 Retainer Spring       55       872 14 06-08 Bolt Carriage Spik. 3/8-16 x 1         6       532 17 30-24 Arm, Suspension, Rear Sway Bar       56       522 15 69-41 Pin Head Rivet         7       532 17 40-65 Bolt 7/16 Asm. Blade       77       532 15 69-41 Pin Head Rivet         7       532 17 30-54 Blade, 48" Hi-Lift (For bagging and discharging)       532 17 43-66 Noteroller       78         11       532 17 43-66 Shaft Asm. Wulcower Bearing       92       873 80 06-00 Nut Lock Hex 3/8-16 x 12 Ca.         7       532 17 43-60 Shaft Asm. Wulcower Bearing       95       532 17 9-06 Noseroller         7       532 17 43-60 Shaft Asm. Wulcower Bearing       96       532 17 9-07 Spring Primary Drive         16       532 17 43-80 Shaft Asm. Wulcower State       10       872 11 06-16 Bolt RDHD Sqn k3/8-16 k 1.25         17       872 11 06-10 Bolt RDHD Sq Neck 3/8-16 x 1.25       112       532 17 43-78 Shipper Mandrel Deck         18       532 17 34-36 Phile, Virtex Mower       113       532 17 43-78 Shipper Mandrel Deck         18       873 18 10-0 Deflector Shield       114       532 17 43-78 Ship Secondary         17       532 17 3	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
3       532 13 80-17 Bracket Asm., Sway Bar       54       874 78 06-16 Bolt Fin Hex 3/8-16 x 1         5       532 17 40-24 Arm, Suspension, Rear Sway Bar Deck       55       872 14 06-08 Bolt Carriage Sqnk. 3/8-16 x 1         6       532 17 43-65 Bolt 7/16 Asm. Blade (A8" Mulching blades are available)       56       522 15 59-86 Bar Pnt Adj.         11       532 17 39-21 Blade, 48" Mulching (For mulching mowers only)       532 17 39-21 Blade, 48" Mulching (For mulching mowers only)       532 17 43-60 Shaft Asm. wLower Bearing       94       532 17 49-60 Shaft Asm. wLower Bearing       95       532 18 09-33 Hripser Mandrel Asm. WLower Bearing       95       532 18 99-93 Pulley Idler'V'         13       532 17 43-60 Shaft Asm. wLower Bearing mowers only)       95       532 18 09-93 Pulley Idler'V'       95       532 18 09-93 Pulley Idler'V'         14       532 17 43-78 Baffle, Vortex Mower       110       532 17 43-78 Baffle, Vortex Mower       110       532 17 43-78 Baffle, Vortex Mower       115       532 17 43-78 Baffle, Vortex Mower       116       532 17 43-78 Baffle, Vortex Mower         21       532 18 70-0 Spring, Torsion       118       873 93 00-00 Nut, Centerlock 3/8-16 unc       116       532 17 43-78 Baffle, Vortex Mower       116       532 17 43-78 Baffle, Vortex Mowe	1	532 18 18-48	Deck Weldment Mower 48	52	532 17 58-20	Pulley Idler Flat
6       532 17 80-24 Arm, Suspension, Rear Sway Bar Deck       532 15 29-86 Bar Pnt Adj.         8       532 17 43-65 Bolt 7/16 Asm. Blade (Rimit Hi-Lift (For bagging and discharging)       532 18 0-54 Blade, 48" Hi-Lift (For bagging and discharging)         11       532 17 39-21 Blade, 48" Mulching (For mulching mowers only)       95 532 18 0-54 Bracket, Asm Noseroller, RH         12       532 17 43-60 Shaft Asm. w/Lower Bearing       96 532 18 0-54 Bracket, Asm Noseroller, LH         13       532 17 43-60 Shaft Asm. w/Lower Bearing       98 532 17 94-79 Spring Primary Drive         14       532 17 43-60 Shaft Asm. W/Lower Bearing       98 532 17 94-79 Spring Primary Drive         15       532 11 04-52 Mandrel Asm. Housing       99 532 18 99-39 Unley Idler'V''         16       532 17 43-60 Shit, Asm. Housing       99 532 17 94-79 Spring Primary Drive         17       872 11 06-10 Bolt RDHD Sq Neck 38-16 x 1.25       110 532 17 43-87 Link Tension Relief Lever         18       872 14 05-05 Bolt, Carriage 5/16-18 x 5/8       113 822 11 05-06 Bolt S/16-18 x 3/4         19       532 17 43-78 Dati, Hex Hd, Shoulder 5/16-18 unc       116 532 17 43-78 Cauge Wheel         21       873 60 0-00 Nut, Crownlock 5/16-18 unc       116 532 17 43-73 Cauge Wheel         25       532 17 43-70 Deflector Shield       121 532 17 43-74 Gauge Wheel         25       532 17 33-78 Pulley, Idler, Fiat       136 321 7 43-73 Srull	3				874 78 06-16	Bolt Fin Hex 3/8-16 x 1
6       532 17 80-24 Arm, Suspension, Rear Sway Bar Deck       532 17 80-24 Arm, Suspension, Rear Sway Bar Deck       532 15 59-46 Bar Pnt Adj.         8       532 17 43-65 Bolt 7/16 Asm, Blade (The following blades are available) (The following blades are available) discharging)       72       819 13 13-12 Washer 13/32 x 13/16 x 12 Ga.         11       532 17 43-65 Bolt 7/16 Asm, Blade (A* Mulching (For bagging and discharging)       91       532 16 0-54 Bracket, Asm Noseroller, RH         11       532 17 43-60 Shaft Asm. w/Lower Bearing       93       532 17 80-66 Noseroller         13       532 17 43-60 Shaft Asm. w/Lower Bearing       98       532 17 80-66 Noseroller LH         91       532 17 43-60 Shaft Asm. w/Lower Bearing       98       532 17 80-66 Bolt RDHD Sqnk 3/8-16 unc x 2         16       532 17 44-93 Stripper Mandrel Deck       100       872 11 06-66 Bolt RDHD Sq Nek 3/8-16 x 1.25         17       872 11 06-10 Bolt RDHD Sq Neck 3/8-16 x 1.25       112       532 17 43-87 Baffle, Vortex Mower         21       873 11 04-50 Solt, Hex Hd, Shoulder 5/16-18 unc       114       532 17 43-78 Dail, Hex Hd, Shoulder 5/16-18 unc         25       13 14-91 Rod, Hing       110 -61 Washer 11/32 x 5/8 x 16 Ga.       121       532 17 43-68 Pulley, Idler, Flat         26       532 17 83-42 Nut, Flys       113 32 x 5/8 x 16 Ga.       121       532 17 43-75 Pulley, Idler, Flat         26				55	872 14 06-08	Bolt Carriage Sqnk. 3/8-16 x 1
8       532 17 43-65 Bolt 7/16 Asm. Blade (The following blades are available)       72       819 13 13-12 Washer 13/32 x 13/16 x 12 Ga.         11       532 18 00-54 Blade, 48" Hi-Lift (For bagging and discharging)       91       532 18 00-54 Blacket, Asm Noseroller, HH          532 17 39-21 Blade, 48" Mulching (For mulching mowers only)       92       532 17 60-66 Noseroller         13       532 17 43-60 Shaft Asm. w/Lower Bearing       93       532 17 94-79 Spring Primary Drive         14       532 17 44-83 Bandrel Asm. Housing       99       532 17 94-79 Spring Primary Drive         15       532 11 04-85 Bearing, Ball, Mandrel       100       872 11 06-16 Bolt RDHD Sqnkck 3/8-16 x 1.25         16       532 17 43-78 Baffle, Vortex Mower       110       532 17 43-84 Thision Relief Lever         18       872 14 05-05 Bolt, Carriage 5/16-18 x 5/8       113       872 11 06-16 Bolt RDHD Sqnkck 3/8-16 unc         18       872 14 05-05 Bolt, Carriage 5/16-18 unc       116       532 17 43-84 Tension Relief Lever         20       532 17 81-80 Syming, Torsion       116       532 17 43-78 Baffle, Vortex Mower       115         21       10 4-52 Nut, Push       119       819 11 10-16 Washer 11/32 x 5/8 x 16 Ga.       129       532 17 43-73 Vash Relief Lever         25       532 17 39-84 Crew, Thdroll Washer Head       130       116       532 17 43-7	6	532 17 80-24	Arm, Suspension, Rear Sway Bar		532 15 59-86	Bar Pnt Adj.
(The following blades are available)       91       532 18 05-35 Bracket, Asm Noseroller, RH         11       532 18 00-54 Blade, 48" HiL-Lift (For bagging and discharging)       92       873 80 06-00 Nut Lock Hex 3/8-16          532 17 43-60 Shaft Asm. W/Lower Bearing       95       532 17 60-66 Noseroller         13       532 17 43-60 Shaft Asm. W/Lower Bearing       95       532 17 84-79 Spring Primary Drive         14       532 17 43-58 Mandrel Asm. Housing       99       532 18 99-93 Pulley Idler"V"         15       532 17 44-93 Stripper Mandrel Deck       100       872 11 06-16 Boit RDHD Sqn Neck 3/8-16 unc x 2         16       532 17 44-93 Stripper Mandrel Deck       110       532 17 43-87 How Neck 3/8-16 unc x 2         17       872 11 06-10 Boit RDHD Sqn Neck 3/8-16 4 1.25       110       532 17 43-87 How Neck 3/8-16 unc x 2         18       872 14 05-05 Boit, Carriage 5/16-18 unc       116       532 17 46-09 Arm Spring Tension Relief         21       733 20 76 Co Nut, Crownlock 5/16-18 unc       116       532 17 46-09 Arm Spring Secondary Drive         24       532 17 81-02 Spring, Torsion       118       873 93 06-00 Nut, Centerlock 3/8-16 unc         26       532 17 43-69 Washer, Spacer       12       532 17 43-78 X 14 Ga.         27       532 17 39-84 Vut, Flg. Top Lock Chrt. 9/16       183       532 17 39-79 Keeper Be	-					
11       532 18 00-54 Blade, 48" Hi-Lift (For bagging and discharging)       92       873 80 06-00 Nut Lock Hex 3/8-16	8	532 17 43-65				
discharging)       94       532 17 60-66 Noseroller          532 17 39-21 Blade, 48' Mulching (For mulching mowers only)       95       532 18 05-34 Bracket, Asm Noseroller LH mowers only)         13       532 17 43-60 Shaft Asm. w/Lower Bearing       98       532 17 94-79 Spring Primary Drive         14       532 17 43-58 Mandrel Asm. Housing       99       532 17 94-79 Spring Primary Drive         15       532 17 44-93 Stripper Mandrel Deck       100       872 11 06-16 Both RDHD Sq Nck 3/8-16 x 1.25         18       872 11 06-10 Both RDHD Sq Neck 3/8-16 x 1.25       112       532 17 43-84 Tension Relief Lever         20       532 17 43-78 Baffle, Vortex Mower       113       532 17 43-78 Link Tension Relief Lever         21       873 21 04-52 Nut, Push       114       532 17 48-73 Gauge Wheel         25       532 17 43-78 Baffle, Vortex Mower       115       532 17 48-73 Gauge Wheel         25       532 17 43-78 Link Ga.       121       532 17 43-78 Link Ga.         26       532 17 39-84 Screw, Thdroll Washer Head       118       873 90 0-00 Nut, Centerlock 3/8-16 unc         26       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x 1.0         31       532 17 43-70 Polley, Ider, Flat       122       532 17 43-73 Priley, Boler Head       130         353 217 73-						
532 17 39-21 Blade, 48" Mulching (For mulching mowers only)       95       532 18 05-34 Bracket, Asm Noseroller LH 97         13       532 17 43-60 Shaft Asm. w/Lower Bearing       97       532 17 84-51 Washer Hardened         14       532 17 43-60 Shaft Asm. w/Lower Bearing       98       532 17 84-75 Washer Hardened         14       532 17 44-80 Stripper Mandrel Deck       100       872 11 06-16 Bolt RDHD Sqnk 3/8-16 unc x 2         15       532 17 44-93 Stripper Mandrel Deck       100       872 11 06-16 Bolt RDHD Sqnk 3/8-16 unc x 2         18       872 11 06-10 Bolt RDHD Sq Neck 3/8-16 x 1.25       112       532 17 43-87 Link Tension Relief Lever         18       872 11 05-06 Bolt, Carriage 5/16-18 x 5/8       113       872 11 05-06 Bolt, S/16-18 x 3/4         19       532 17 43-78 Baffle, Vortex Mower       115       532 17 43-84 Tension Asm. Relief Lever         20       532 17 43-78 Baffle, Vortex Mower       116       532 17 46-09 Arm Spring Tension Relief         21       873 68 05-00 Nut, Crownlock 5/16-18 unc       118       873 93 06-00 Nut, Centerlock 3/8-16 unc         26       532 17 43-70 Peflector Shield       121       532 17 46-08 Bushing Pivot Tension Relief         25       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x .75         26       532 17 79-68 Pulley, Idler, Driven	11	532 18 00-54				
mowers only)         97         532 17 85-15 Washer Hardened           13         532 17 43-60 Shaft Asm. w/Lower Bearing         98         532 17 94-79 Spring Primary Drive           14         532 17 43-60 Khaft Asm. Musing         99         532 18 99-93 Pulley Idler"V"           15         532 11 04-85 Bearing, Ball, Mandrel         100         872 11 06-16 Bolt RDHD Sq Neck 3/8-16 x 1.25           16         532 17 44-93 Stripper Mandrel Deck         110         532 17 43-87 Link Tension Relief Lever           18         872 14 05-05 Bolt, Carriage 5/16-18 x 5/8         113         872 11 05-06 Bolt 5/16-18 x 3/4           19         532 17 83-8 Baffle, Vortex Mower         115         532 17 43-87 Link Tension Asm. Relief Lever           20         532 17 83-8 Baffle, Vortex Mower         115         532 17 43-87 Link Tension Asm. Relief Lever           21         873 68 05-00 Nut, Crownlock 5/16-18 unc         116         532 19 34-06 Bolt, Shoulder           24         532 10 63-04 Cap, Sleeve         117         118         873 90 6-00 Nut, Centerlock 3/8-16 unc           25         532 17 104-52 Nut, Push         119         819 12 14-14 Washer 3/8 x 7/8 x 14 Ga.         121           25         532 17 39-84 Screw, Thdroll Washer Head         121         532 17 43-72 Arm, Idler, Primary Deck           30         532 17 79-68 Pulley, Idl		522 17 20 21				
13       532 17 43-60 Shaft Asm. W/Lower Bearing       98       532 17 94-79 Spring Primary Drive         14       532 17 43-58 Mandrel Asm. Housing       99       532 18 99-93 Pulley Idler"V"         15       532 17 44-93 Stripper Mandrel Deck       100       872 11 06-16 Dolt RDHD Sq Neck 3/8-16 x 1.25         16       532 17 44-93 Stripper Mandrel Deck       110       532 17 43-78 Baffle, Vortex Mower       110         18       872 11 06-10 Bolt RDHD Sq Neck 3/8-16 x 1.25       112       532 17 43-78 Baffle, Vortex Mower       112         20       532 17 43-78 Baffle, Vortex Mower       114       532 17 48-73 Gauge Wheel       115         21       873 68 05-00 Nut, Crownlock 5/16-18 unc       116       532 17 48-73 Gauge Wheel         25       532 17 81-02 Spring, Torsion       118       873 93 06-00 Nut, Centerlock 3/8-16 unc         26       532 17 04-52 Nut, Push       119       121 43-71 Spring Secondary Drive         28       819 11 10-16 Washer 11/32 x 5/8 x 16 Ga.       122 532 17 43-73 Fulley, Idler, Primary Deck         30       532 17 34-36 Pulley, Mandrel       122 532 17 43-74 Ceng Baffle, Vortex More         31       532 17 79-68 Pulley, Idler, Driven       122 532 17 43-72 Arm, Idler, Primary Deck         33       532 17 43-75 Pulley, Idler, Driven        532 17 43-75 Pulley, Idler, Driven       -		552 17 59-21				
14       532 17 43-58 Mandrel Asm. Housing       99       532 18 99-93 Pulley Idler"V"         15       532 11 04-85 Bearing, Ball, Mandrel       100       872 11 06-16 Bolt RDHD Sqn k3/8-16 unc x 2         16       532 17 43-93 Stripper Mandrel Deck       110       532 17 43-93 Stripper Mandrel Deck         17       872 11 06-10 Bolt RDHD Sq Neck 3/8-16 x 1.25       112       532 17 43-78 Baffle, Vortex Mower         19       532 17 43-78 Baffle, Vortex Mower       115       532 17 43-78 Baffle, Vortex Mower         24       532 10 53-04 Cap, Sleeve       114       532 17 43-78 Baffle, Vortex Mower         24       532 10 53-04 Cap, Sleeve       115       532 17 48-73 Gauge Wheel         25       532 17 104-52 Nut, Push       119       819 12 12 14-14 Washer 3/8 x 7/8 x 14 Ga.         27       532 18 17-07 Deflector Shield       12       532 17 43-76 Bushing Pivot Tension Relief         29       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-12 Screw 3/8-16 u.10         31       532 17 43-76 Pulley, Idler, Flat       18       532 17 43-76 Pulley, Idler, Flat         33       532 17 43-76 Pulley, Idler, Flat       18       532 17 43-76 Mandrel Asm. Service         33       532 17 43-78 Pulley, Idler, Flat       18       532 17 43-76 Mandrel Asm. Service         34       532 17	13	532 17 /3-60				
15       532 11 04-85 Bearing, Ball, Mandrel       100       872 11 06-16 Bolt ÁDHD Sqnk 3/8-16 unc x 2         16       532 17 44-93 Stripper Mandrel Deck       110       532 17 50-16 Arm Spring Secondary         17       872 11 06-10 Bolt RDHD Sq Neck 3/8-16 x 1.25       112       532 17 43-87 Link Tension Relief Lever         18       872 14 05-05 Bolt, Carriage 5/16-18 x 5/8       113       872 11 06-06 Bolt 5/16-18 x 3/4         19       532 17 43-78 Baffle, Vortex Mower       115       532 17 43-84 Tension Asm. Relief Lever         20       532 17 43-78 Baffle, Vortex Mower       116       532 19 34-06 Bolt, Shoulder         24       532 10 53-04 Cap, Sleeve       117       532 17 46-09 Arm Spring Tension Relief         25       532 17 81-02 Spring, Torsion       118       873 93 06-00 Nut, Centerlock 3/8-16 unc         26       532 18 17-07 Deflector Shield       121       532 17 43-78 x 14 Ga.         27       532 18 76-90 Washer, Spacer       130       817 00 06-12 Screw 3/8-16 x .75         28       532 17 34-36 Pulley, Mandrel       132       532 17 91-27 Rod Roller Nose         33       532 17 73-48 Drulley, Idler, Flat       184       532 17 93-79 Keeper Belt Idler         39       532 17 73-73 Arm, Idler Secondary        532 18 15-91 Relplacement Mower, Completer         3532 17 73-7						
16       532 17 44-93 Stripper Mandrel Deck       110       532 17 50-16 Arm Spring Secondary         17       872 11 06-10 Bolt RDHD Sq Neck 3/8-16 x 1.25       112       532 17 43-87 Link Tension Relief Lever         18       872 14 05-05 Bolt, Carriage 5/16-18 x 5/8       113       572 11 05-06 Bolt 5/16-18 x 3/4         19       532 17 43-78 Baffle, Vortex Mower       114       532 17 43-84 Tension Asm. Relief Lever         20       532 17 43-78 Baffle, Vortex Mower       115       532 17 46-09 Arm Spring Tension Relief         21       873 68 05-00 Nut, Crownlock 5/16-18 unc       116       532 19 34-06 Bolt, Shoulder         24       532 10 53-04 Cap, Sleeve       117       532 17 48-73 Gauge Wheel         25       532 17 10-70 Deflector Shield       119       819 12 14-14 Washer 3/8 x 7/8 x 14 Ga.         27       532 18 17-07 Deflector Shield       121       532 17 43-71 Spring Secondary Drive         28       819 110-16 Washer 11/32 x 5/8 x 16 Ga.       126       532 17 43-72 Arm, Idler, Primary Deck         30       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x 1.0         31       532 17 73-68 Pulley, Idler, Driven       128       532 17 13-75 Pulley, Idler, Driven         37       532 17 43-75 Pulley, Idler, Driven       132       817 00 06-12 Screw 3/8-16 x 1.0						
17       872 11 06-10 Bolt RDHD Sq Neck 3/8-16 x 1.25       112       532 17 43-87 Link Tension Relief Lever         18       872 14 05-05 Bolt, Carriage 5/16-18 x 5/8       113       872 11 05-06 Bolt 5/16-18 x 3/4         19       532 13 28-27 Bolt, Hex Hd, Shoulder 5/16-18       114       532 17 43-84 Tension Asm. Relief Lever         20       532 17 43-78 Baffle, Vortex Mower       115       532 17 43-78 denote the tension Relief         21       873 68 05-00 Nut, Crownlock 5/16-18 unc       116       532 17 48-73 Gauge Wheel         24       532 17 05-04 Cap, Sleeve       117       532 17 48-73 Gauge Wheel         25       532 17 05-04 Cap, Sleeve       118       873 93 06-00 Nut, Centerlock 3/8-16 unc         26       532 11 04-52 Nut, Push       119       191 91 12 14-14 Washer 3/8 x 7/8 x 14 Ga.         27       532 18 17-07 Deflector Shield       121       532 17 43-71 Spring Secondary Drive         28       819 11 10-16 Washer 11/32 x 5/8 x 16 Ga.       122       532 17 43-70 Relief Lever         29       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x .75         31       532 17 73-48 Pulley, Idler, Flat       184       532 17 91-72 Rod Roller Nose         353 217 73-75 Pulley, Idler, Driven        532 18 08-06 Cover, Mandrel Deck          532						
18       872 14 05-05 Bolt, Carriage 5/16-18 x 5/8       113       872 11 05-06 Bolt 5/16-18 x 3/4         19       532 13 28-27 Bolt, Hex Hd, Shoulder 5/16-18       114       532 17 43-84 Tension Asm. Relief Lever         20       532 17 43-78 Baffle, Vortex Mower       115       532 17 43-98 Hersion Asm. Relief Lever         21       877 68 05-00 Nut, Crownlock 5/16-18 unc       116       532 17 46-09 Arm Spring Tension Relief         24       532 10 53-04 Cap, Sleeve       116       532 17 48-73 Gauge Wheel         25       532 17 81-02 Spring, Torsion       118       873 93 06-00 Nut, Centerlock 3/8-16 unc         26       532 11 04-52 Nut, Push       119       819 12 14-14 Washer 3/8 x 7/8 x 14 Ga.         27       532 18 17-07 Deflector Shield       121       532 17 43-78 x 1/4 Ga.         29       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x 1.0         31       532 17 73-84 Pulley, Mandrel       182       532 17 91-27 Rod Roller Nose         33       532 17 73-84 Pulley, Idler, Driven       184       532 17 39-79 Keeper Belt Idler         353 217 73-75 Pulley, Idler, Driven        532 18 15-91 Relplacement Mower, Complete (Std. Deck - Order separately nose roller components key nos. 91, 94, 95, 132, 182, and 183)         353 217 43-68 V-Belt, Mower, Secondary        532 18 15-91 Relplac						
19       532 13 28-27 Bolt, Hex Hd, Shoulder 5/16-18       114       532 17 43-84 Tension Asm. Relief Lever         20       532 17 43-78 Baffle, Vortex Mower       115       532 17 43-84 Tension Asm. Relief Lever         21       873 68 05-00 Nut, Crownlock 5/16-18 unc       115       532 17 48-09 Arm Spring Tension Relief         24       532 10 53-04 Cap, Sleeve       116       532 17 48-73 Gauge Wheel         25       532 17 81-02 Spring, Torsion       118       873 93 06-00 Nut, Centerlock 3/8-16 unc         26       532 11 04-52 Nut, Push       119       819 12 14-14 Washer 3/8 x 7/8 x 14 Ga.         27       532 18 17-07 Deflector Shield       121       532 17 43-73 Spring Secondary Drive         28       819 11 10-16 Washer 11/32 x 5/8 x 16 Ga.       122       532 17 43-72 Arm, Idler, Primary Deck         30       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-12 Screw 3/8-16 x .75         32       532 17 83-42 Nut, Flg. Top Lock Cntr. 9/16       183       532 17 91-27 Rod Roller Nose         33       532 17 43-73 Arm, Idler, Flat       184       532 17 39-79 Keeper Belt Idler         353 217 43-75 Pulley, Idler, Driven        532 18 08-06 Cover, Mandrel Deck          532 18 08-06 Cover, Mandrel Deck        532 18 15-91 Relplacement Mower, Complete (Std. Deck - Order separately nose roller		872 14 05-05	Bolt, Carriage 5/16-18 x 5/8			
21       873 68 05-00 Nut, Crownlock 5/16-18 unc       116       532 19 34-06 Bolt, Shoulder         24       532 10 53-04 Cap, Sleeve       117       532 17 48-73 Gauge Wheel         25       532 17 81-02 Spring, Torsion       118       873 93 06-00 Nut, Centerlock 3/8-16 unc         26       532 11 04-52 Nut, Push       119       819 12 14-14 Washer 3/8 x 7/8 x 14 Ga.         27       532 18 7-07 Deflector Shield       12       532 17 43-71 Spring Secondary Drive         28       819 11 10-16 Washer 11/32 x 5/8 x 16 Ga.       122       532 17 43-72 Arm, Idler, Primary Deck         29       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x 1.0         31       532 17 79-68 Pulley, Mandrel       182       532 17 91-27 Rod Roller Nose         33       532 17 43-75 Pulley, Idler, Flat       184       532 17 43-75 Marm, Idler Secondary         45       532 18 08-06 Cover, Mandrel Deck        532 18 15-91 Relplacement Mower, Complete (Std. Deck - Order separately nose roller components key nos. 91, 94, 95, 132, 182, and 183)         47       532 18 08-08 V-Belt, Mower, Primary       95, 132, 182, and 183)         48       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)         49       873 90 06-00 Nut, Lock 3/8-16 unc          532 16 43 04 00 Nut, Lock 3/8-16 unc		532 13 28-27	Bolt, Hex Hd, Shoulder 5/16-18	114		
24       532 10 53-04 Cap, Sleeve       117       532 17 48-73 Gauge Wheel         25       532 17 81-02 Spring, Torsion       118       873 93 06-00 Nut, Centerlock 3/8-16 unc         26       532 11 04-52 Nut, Push       119       819 12 14-14 Washer 3/8 x 7/8 x 14 Ga.         27       532 18 17-07 Deflector Shield       12       532 17 43-71 Spring Secondary Drive         28       819 11 10-16 Washer 11/32 x 5/8 x 16 Ga.       12       532 17 43-72 Arm, Idler, Primary Deck         30       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x 1.0         31       532 17 79-86 Pulley, Mandrel       182       532 17 91-27 Rod Roller Nose         33       532 17 79-68 Pulley, Idler, Flat       184       532 17 30-79 Keeper Belt Idler         39       532 17 43-73 Arm, Idler Secondary        532 18 08-06 Cover, Mandrel Deck         45       532 17 43-68 V-Belt, Mower, Secondary        532 18 15-91 Relplacement Mower, Complete         46       532 17 43-68 V-Belt, Mower, Primary        532 18 08-00 Nut, Lock 3/8-16 unc         47       532 18 08-00 V-Belt, Mower, Primary        532 18 08-00 Nut, Lock 3/8-16 unc         48       532 17 43-68 V-Belt, Mower, Primary        532 18 08-00 Nut, Lock 3/8-16 unc         49       532 17 43					532 17 46-09	Arm Spring Tension Relief
25       532 17 81-02 Spring, Torsion       118       873 93 06-00 Nut, Centerlock 3/8-16 unc         26       532 11 04-52 Nut, Push       119       819 12 14-14 Washer 3/8 x 7/8 x 14 Ga.         27       532 18 17-07 Deflector Shield       121       532 17 43-71 Spring Secondary Drive         28       819 11 10-16 Washer 11/32 x 5/8 x 16 Ga.       122       532 17 43-72 Arm, Idler, Primary Deck         29       532 13 14-91 Rod, Hinge       126       532 17 43-72 Arm, Idler, Primary Deck         30       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x 1.0         31       532 17 34-36 Pulley, Mandrel       182       532 17 91-27 Rod Roller Nose         33       532 17 79-68 Pulley, Idler, Flat       184       532 17 39-79 Keeper Belt Idler         39       532 17 43-75 Pulley, Idler, Driven        532 18 15-91 Relplacement Mower, Complete (Std. Deck - Order separately nose roller components key nos. 91, 94, 95, 132, 182, and 183)         42       532 13 77-29 Screw, Thdroll. 1/4-20 x 5/8        532 18 15-91 Relplacement Mower, Secondary 95, 132, 182, and 183)         43       532 17 43-68 V-Belt, Mower, Secondary        532 18 08-00 Nut, Lock 3/8-16 unc         44       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)         45       532 18 08-00 Nut, Lock 3/8-16 unc       <					532 19 34-06	Bolt, Shoulder
26       532 11 04-52 Nut, Push       119       819 12 14-14 Washer 3/8 x 7/8 x 14 Ga.         27       532 18 17-07 Deflector Shield       121       532 17 43-71 Spring Secondary Drive         28       819 11 10-16 Washer 11/32 x 5/8 x 16 Ga.       122       532 17 43-71 Spring Secondary Drive         29       532 13 14-91 Rod, Hinge       122       532 17 43-72 Arm, Idler, Primary Deck         30       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x 1.0         31       532 17 6-90 Washer, Spacer       132       817 00 06-12 Screw 3/8-16 x 1.0         32       532 17 34-36 Pulley, Mandrel       182       532 17 91-27 Rod Roller Nose         33       532 17 43-75 Pulley, Idler, Driven       183       532 16 35-52 Retainer Spring         35       532 17 43-73 Arm, Idler Secondary        532 17 43-56 Mandrel Asm. Service (Includes Key Nos. 13-15 and 33)         43       532 13 77-29 Screw, Thdroll. 1/4-20 x 5/8        532 18 15-91 Relplacement Mower, Complete (Std. Deck - Order separately nose roller components key nos. 91, 94, 95, 132, 182, and 183)         43       532 17 43-68 V-Belt, Mower, Secondary       95, 132, 182, and 183)         44       532 13 77-29 Screw, Thdroll. 1/4-20 x 5/8          532 18 08-08 V-Belt, Mower, Secondary       95, 132, 182, and 183)         45						
27       532 18 17-07 Deflector Shield       121       532 17 43-71 Spring Secondary Drive         28       819 11 10-16 Washer 11/32 x 5/8 x 16 Ga.       122       532 17 43-71 Spring Secondary Drive         29       532 13 14-91 Rod, Hinge       126       532 17 43-72 Arm, Idler, Primary Deck         30       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x 1.0         31       532 17 34-36 Pulley, Mandrel       132       817 00 06-12 Screw 3/8-16 x .75         32       532 17 43-75 Pulley, Idler, Flat       182       532 17 91-27 Rod Roller Nose         33       532 17 43-75 Pulley, Idler, Flat       184       532 17 97-79 Keeper Belt Idler         39       532 17 43-73 Arm, Idler Secondary        532 18 15-91 Relplacement Mower, Complete         45       532 18 08-06 Cover, Mandrel Deck        532 18 15-91 Relplacement Mower, Complete         45       532 17 43-68 V-Belt, Mower, Secondary        532 18 15-91 Relplacement Mower, Complete         46       532 17 43-68 V-Belt, Mower, Primary        532 18 06-00 Nut, Lock 3/8-16 unc         47       532 17 43-68 V-Belt, Mower, Primary        532 18 15-91 Relplacement dimensions given in U.S. inches         48       532 17 43-68 V-Belt, Mower, Primary         532 18 15-91 Relplacemen						
28       819 11 10-16 Washer 11/32 x 5/8 x 16 Ga.       122       532 17 46-06 Bushing Pivot Tension Relief         29       532 13 14-91 Rod, Hinge       126       532 17 43-72 Arm, Idler, Primary Deck         30       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x 1.0         31       532 17 34-36 Pulley, Mandrel       132       817 00 06-12 Screw 3/8-16 x .75         32       532 17 79-68 Pulley, Idler, Flat       182       532 17 91-27 Rod Roller Nose         33       532 17 43-75 Pulley, Idler, Driven       184       532 17 39-79 Keeper Belt Idler         42       532 12 20-52 Spacer, Retainer       184       532 17 43-56 Mandrel Asm. Service         42       532 13 77-29 Screw, Thdroll. 1/4-20 x 5/8        532 18 15-91 Relplacement Mower, Complete         45       532 17 43-68 V-Belt, Mower, Secondary        532 18 08-08 V-Belt, Mower, Primary         49       873 90 06-00 Nut, Lock 3/8-16 unc        S32 17 43-68 V-Belt, Mower, Primary         49       873 90 06-00 Nut, Lock 3/8-16 unc        S12 L1 component dimensions given in U.S. inches						
29       532 13 14-91 Rod, Hinge       126       532 17 43-72 Arm, Idler, Primary Deck         30       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x 1.0         31       532 17 76-90 Washer, Spacer       132       817 00 06-12 Screw 3/8-16 x .75         32       532 17 43-36 Pulley, Mandrel       182       532 17 91-27 Rod Roller Nose         33       532 17 79-68 Pulley, Idler, Flat       183       532 16 35-52 Retainer Spring         39       532 17 43-75 Pulley, Idler, Driven        532 17 43-56 Mandrel Asm. Service (Includes Key Nos. 13-15 and 33)         43       532 13 77-29 Screw, Thdroll. 1/4-20 x 5/8        532 18 15-91 Relplacement Mower, Complete (Std. Deck - Order separately nose roller components key nos. 91, 94, 95, 132, 182, and 183)         48       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)         49       873 90 06-00 Nut, Lock 3/8-16 unc          50       73 90 06-00 Nut, Lock 3/8-16 unc          50       74 00 40 -00 for mark						
30       532 17 39-84 Screw, Thdroll Washer Head       130       817 00 06-16 Screw 3/8-16 x 1.0         31       532 18 76-90 Washer, Spacer       132       817 00 06-12 Screw 3/8-16 x .75         32       532 17 34-36 Pulley, Mandrel       132       817 00 06-12 Screw 3/8-16 x .75         33       532 17 83-42 Nut, Flg. Top Lock Cntr. 9/16       182       532 17 91-27 Rod Roller Nose         33       532 17 79-68 Pulley, Idler, Flat       184       532 17 39-79 Keeper Belt Idler         39       532 17 43-75 Pulley, Idler, Driven        532 17 43-56 Mandrel Asm. Service (Includes Key Nos. 13-15 and 33)         43       532 17 43-73 Arm, Idler Secondary        532 18 15-91 Relplacement Mower, Complete (Std. Deck - Order separately nose roller components key nos. 91, 94, 95, 132, 182, and 183)         47       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)         48       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)         49       873 90 06-00 Nut, Lock 3/8-16 unc       NOTE: All component dimensions given in U.S. inches		8191110-16	Washer 11/32 x 5/8 x 16 Ga.			
31       532 18 76-90 Washer, Spacer       132       817 00 06-12 Screw 3/8-16 x .75         32       532 17 34-36 Pulley, Mandrel       182       532 17 91-27 Rod Roller Nose         33       532 17 83-42 Nut, Flg. Top Lock Cntr. 9/16       183       532 16 35-52 Retainer Spring         37       532 17 43-75 Pulley, Idler, Flat       184       532 17 39-79 Keeper Belt Idler         39       532 17 43-75 Pulley, Idler, Driven        532 17 43-56 Mandrel Asm. Service (Includes Key Nos. 13-15 and 33)         43       532 17 43-73 Arm, Idler Secondary        532 18 08-06 Cover, Mandrel Deck         45       532 13 77-29 Screw, Thdroll. 1/4-20 x 5/8        532 18 08-08 V-Belt, Mower, Secondary         47       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)       95, 132, 182, and 183)         48       532 17 43-68 V-Belt, Mower, Primary       90 06-00 Nut, Lock 3/8-16 unc       NOTE: All component dimensions given in U.S. inches					532 17 43-72	Arm, Idler, Primary Deck
32       532 17 34-36 Pulley, Mandrel       182       532 17 91-27 Rod Roller Nose         33       532 17 83-42 Nut, Flg. Top Lock Cntr. 9/16       183       532 16 35-52 Retainer Spring         37       532 17 79-68 Pulley, Idler, Flat       184       532 17 39-79 Keeper Belt Idler         39       532 17 43-75 Pulley, Idler, Driven        532 17 43-56 Mandrel Asm. Service (Includes Key Nos. 13-15 and 33)         43       532 17 43-73 Arm, Idler Secondary        532 18 08-06 Cover, Mandrel Deck         45       532 13 77-29 Screw, Thdroll. 1/4-20 x 5/8        532 18 08-08 V-Belt, Mower, Secondary         47       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)          48       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)       NOTE: All component dimensions given in U.S. inches						
33       532 17 83-42 Nut, Fig. Top Lock Cntr. 9/16       183       532 16 35-52 Retainer Spring         37       532 17 79-68 Pulley, Idler, Flat       184       532 17 39-79 Keeper Belt Idler         39       532 17 43-75 Pulley, Idler, Driven        532 17 43-56 Mandrel Asm. Service (Includes Key Nos. 13-15 and 33)         43       532 17 43-73 Arm, Idler Secondary        532 18 08-06 Cover, Mandrel Deck         45       532 13 77-29 Screw, Thdroll. 1/4-20 x 5/8        532 18 15-91 Relplacement Mower, Complete (Std. Deck - Order separately nose roller components key nos. 91, 94, 95, 132, 182, and 183)         47       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)         48       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)         49       873 90 06-00 Nut, Lock 3/8-16 unc       NOTE: All component dimensions given in U.S. inches						
37       532 17 79-68 Pulley, Idler, Flat       184       532 17 39-79 Keeper Belt Idler         39       532 17 43-75 Pulley, Idler, Driven        532 17 43-56 Mandrel Asm. Service (Includes Key Nos. 13-15 and 33)         43       532 17 43-73 Arm, Idler Secondary        532 18 15-91 Relplacement Mower, Complete (Std. Deck - Order separately nose roller components key nos. 91, 94, 95, 132, 1808-08 V-Belt, Mower, Primary         48       532 17 43-68 V-Belt, Mower, Primary         49       873 90 06-00 Nut, Lock 3/8-16 unc         537       979 Keeper Belt Idler         532 17 43-68 V-Belt, Mower, Primary         49       873 90 06-00 Nut, Lock 3/8-16 unc         537       979 Keeper Belt Idler         538          539          530          532          532          532          532          532          532          532          532          532          532          532          532          532          532						
39       532 17 43-75 Pulley, Idler, Driven        532 17 43-56 Mandrel Asm. Service (Includes Key Nos. 13-15 and 33)         42       532 12 20-52 Spacer, Retainer        532 17 43-56 Mandrel Asm. Service (Includes Key Nos. 13-15 and 33)         43       532 17 43-73 Arm, Idler Secondary        532 18 15-91 Relplacement Mower, Complete (Std. Deck - Order separately nose roller components key nos. 91, 94, 95, 132, 1808-08 V-Belt, Mower, Primary         48       532 17 43-68 V-Belt, Mower, Primary         49       873 90 06-00 Nut, Lock 3/8-16 unc         537       90 06-00 Nut, Lock 3/8-16 unc         538       NOTE: All component dimensions given in U.S. inches						
42       532 12 20-52 Spacer, Retainer       (Includes Key Nos. 13-15 and 33)         43       532 17 43-73 Arm, Idler Secondary        532 18 15-91 Relplacement Mower, Complete         45       532 18 08-06 Cover, Mandrel Deck        532 18 15-91 Relplacement Mower, Complete         46       532 13 77-29 Screw, Thdroll. 1/4-20 x 5/8        532 18 08-08 V-Belt, Mower, Secondary         47       532 18 08-08 V-Belt, Mower, Secondary       95, 132, 182, and 183)         48       532 17 43-68 V-Belt, Mower, Primary         49       873 90 06-00 Nut, Lock 3/8-16 unc         59       70 06-00 Nut, Lock 3/8-16 unc         59       70 06-00 Nut, Lock 3/8-16 unc    NOTE: All component dimensions given in U.S. inches				-		
<ul> <li>43 532 17 43-73 Arm, Idler Secondary</li> <li>45 532 18 08-06 Cover, Mandrel Deck</li> <li>46 532 13 77-29 Screw, Thdroll. 1/4-20 x 5/8</li> <li>47 532 18 08-08 V-Belt, Mower, Secondary</li> <li>48 532 17 43-68 V-Belt, Mower, Primary</li> <li>49 873 90 06-00 Nut, Lock 3/8-16 unc</li> <li>47 0573 91 06-00 Nut, Lock 3/8-16 unc</li> <li>48 0579 14 00 40 Path Core 5/04 0 0 4 1/0 0 m 5</li> </ul>	42				002 17 10 00	
45       532 18 08-06 Cover, Mandrel Deck       (Std. Deck - Order separately nose         46       532 13 77-29 Screw, Thdroll. 1/4-20 x 5/8       roller components key nos. 91, 94,         47       532 18 08-08 V-Belt, Mower, Secondary       95, 132, 182, and 183)         48       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)         49       873 90 06-00 Nut, Lock 3/8-16 unc       NOTE: All component dimensions given in U.S. inches					532 18 15-91	
46       532 13 77-29 Screw, Thdroll. 1/4-20 x 5/8       roller components key nos. 91, 94,         47       532 18 08-08 V-Belt, Mower, Secondary       95, 132, 182, and 183)         48       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)         49       873 90 06-00 Nut, Lock 3/8-16 unc       NOTE: All component dimensions given in U.S. inches						
47       532 18 08-08 V-Belt, Mower, Secondary       95, 132, 182, and 183)         48       532 17 43-68 V-Belt, Mower, Primary       95, 132, 182, and 183)         49       873 90 06-00 Nut, Lock 3/8-16 unc       NOTE: All component dimensions given in U.S. inches		532 13 77-29	Screw, Thdroll. 1/4-20 x 5/8			
49 873 90 06-00 Nut, Lock 3/8-16 unc <b>NOTE:</b> All component dimensions given in U.S. inches						
				NOTE	E: All compone	ent dimensions given in U.S. inches
50       872 11 06-12 Bolt, Carr. 3/8-16 x 1-1/2 Gr. 5       1 inch = 25.4 mm	50	872 11 06-12	Bolt, Carr. 3/8-16 x 1-1/2 Gr. 5			

## SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



# **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>, <u>nonprofessional</u>, <u>noninstitutional or nonincome producing use</u>, 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-pro-fessional, 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 <u>commercial, institutional, professional or income producing purposes or use</u>.

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, professional, 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. HUSQVARNA 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 MERCHANTABIL-ITY OR FITNESS FOR A PARTICULAR PURPOSE ON THESE PRODUCTS IS LIMITED IN DURATION TO THE WARRANTY PERIOD AS DEFINED IN THE LIMITED WARRANTY STATEMENT. HUSQVARNA RE-SERVES THE RIGHT TO CHANGE OR IMPROVE THE DESIGN OF THE PRODUCT WITHOUT NOTICE, AND DOES NOT ASSUME OBLIGATION TO UPDATE PREVIOUSLY UCTS.

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

531 83 81-23 2002



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