YTH2548

Owner's Manual
I. GENERAL OPERATION

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

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

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

III. CHILDREN

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

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

IV. SERVICE

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

Safe Operation Practices for Ride-On Mowers

- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

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

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

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

WARNING

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.
PRODUCT SPECIFICATIONS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gasoline Capacity and type:</td>
<td>4 Gallons Unleaded Regular</td>
</tr>
<tr>
<td>Oil Type (API-SF-SJ):</td>
<td>SAE 10W30 (above 32°F) SAE 5W-30 (below 32°F)</td>
</tr>
<tr>
<td>Oil Capacity:</td>
<td>W/ Filter: 4.0 Pints W/O Filter: 3.5 Pints</td>
</tr>
<tr>
<td>Spark Plug: (Gap: .030&quot;)</td>
<td>Champion RC12YC</td>
</tr>
<tr>
<td>Ground Speed (MPH):</td>
<td>Forward: 0 – 5.5 Reverse: 0 – 2.4</td>
</tr>
<tr>
<td>Tire Pressure:</td>
<td>Front: 14 PSI Rear: 10 PSI</td>
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<tr>
<td>Charging System:</td>
<td>15 AMPS @ 3600 RPM</td>
</tr>
<tr>
<td>Battery:</td>
<td>AMP/HR: 35 MIN. CCA: 280</td>
</tr>
<tr>
<td>Case Size:</td>
<td>U1R</td>
</tr>
<tr>
<td>Blade Bolt Torque:</td>
<td>45-55 FT. LBS.</td>
</tr>
</tbody>
</table>

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 service center/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

Steering Wheel

- Steering Wheel Insert

Mower

- Front Plate Assembly
- Retainer Springs (single loop)
- Retainer Springs (double loop)
- Flanged Pins

Gauge Wheels

- Adjusting Bars
- Shoulder Bolts
- Wheels
- Locknuts 3/8-16
- Retainer Springs (double loop)
- Clevis Pins

Seat

- Hex Bolts 5/16 x 18 x 1
- Locknuts 5/16 x 18
- Retainer Spring

Nose Roller

- Hex Bolts 5/16 x 18 x 1
- Locknuts 5/16 x 18

Keys

- Keys

Slope Sheet

- Oil Drain Tube
- For Future Use

(1) Washer 17/32 x 1-3/16 x 12 Gauge

(1) Knob
ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY
A socket wrench set will make assembly easier. Standard wrench sizes are listed.
(1) Tire pressure gauge
(2) 3/4” wrenches (1) Utility knife
(2) 7/16” wrenches (1) 3/4” socket w/drive ratchet
(1) Pliers

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.
• Remove mower and packing materials.
• 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.

CHECK BATTERY (See Fig. 2)
• 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 Maintenance section of this manual for charging instructions).

FIG. 1

FIG. 2
ASSEMBLY

INSTALL SEAT (See Fig. 3)
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.

TO ATTACH NOSE ROLLER (See Fig. 4)
- Assemble brackets "A" and "B" to the inside of mower mounting brackets as shown. Tighten securely.
- Position nose roller between brackets and install rod and retainer spring.

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)
WARNING: Before starting, read, understand and follow all instructions in the Operation section of this manual. Be sure tractor is in a well-ventilated area. Be sure the area in front of tractor is clear of other people and objects.
- Be sure all the above assembly steps have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- 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.

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.
ASSEMBLY

- 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.
- 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 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.
- 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.

![FIG. 6]
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 MOWER LEVELNESS
For best cutting results, mower should be properly leveled.
See “TO LEVEL MOWER HOUSING” in the Service and
Adjustments section of this manual.

CHECK FOR PROPER POSITION OF ALL BELTS
See the figures that are shown for replacing motion, mower
drive, and mower blade drive belts in the Service and Ad-
justments section of this manual. Verify that the belts are
routed correctly.

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

✓ CHECKLIST
BEFORE YOU OPERATE AND ENJOY YOUR NEW TRAC-
TOR, WE WISH TO ASSURE THAT YOU RECEIVE THE
BEST PERFORMANCE AND SATISFACTION FROM THIS
QUALITY PRODUCT.
PLEASE REVIEW THE FOLLOWING CHECKLIST:
✓ All assembly instructions have been completed.
✓ No remaining loose parts in carton.
✓ Battery is properly prepared and charged. (Minimum
  1 hour at 6 amps).
✓ Seat is adjusted comfortably and tightened securely.
✓ All tires are properly inflated. (For shipping purposes,
  the tires were overinflated at the factory).
✓ Be sure mower deck is properly leveled side-to-side/
  front-to-rear for best cutting results. (Tires must be
  properly inflated for leveling).
✓ Check mower and drive belts. Be sure they are routed
  properly around pulleys and inside all belt keepers.
✓ Check wiring. See that all connections are still secure
  and wires are properly clamped.
✓ Before driving tractor, be sure freewheel control is in
  drive position.

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.
✓ It is important to purge the transmission before oper-
  ating your tractor for the first time. Follow proper start-
  ing 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.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>REVERSE</td>
</tr>
<tr>
<td>N</td>
<td>NEUTRAL</td>
</tr>
<tr>
<td>H</td>
<td>HIGH</td>
</tr>
<tr>
<td>L</td>
<td>LOW</td>
</tr>
<tr>
<td>CH</td>
<td>CHOKE</td>
</tr>
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<td>F</td>
<td>FAST</td>
</tr>
<tr>
<td>S</td>
<td>SLOW</td>
</tr>
<tr>
<td>IGN</td>
<td>IGNITION</td>
</tr>
<tr>
<td>STOP</td>
<td>ENGINE OFF</td>
</tr>
<tr>
<td>LIGHTS ON</td>
<td>ENGINE ON</td>
</tr>
<tr>
<td>ENGINE START</td>
<td>PARKING BRAKE</td>
</tr>
<tr>
<td>PARKING BRAKE LOCKED</td>
<td>PARKING BRAKE UNLOCKED</td>
</tr>
<tr>
<td>OVER TEMP LIGHT</td>
<td>FUEL</td>
</tr>
<tr>
<td>OIL PRESSURE</td>
<td>BATTERY</td>
</tr>
<tr>
<td>REVERSE</td>
<td>FORWARD</td>
</tr>
<tr>
<td>MOWER HEIGHT</td>
<td>MOWER LIFT</td>
</tr>
<tr>
<td>ATTACHMENT CLUTCH ENGAGED</td>
<td>ATTACHMENT CLUTCH DISENGAGED</td>
</tr>
</tbody>
</table>

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

- **DANGER** indicates a hazard which, if not avoided, will result in death or serious injury.
- **WARNING** indicates a hazard which, if not avoided, could result in death or serious injury.
- **CAUTION** indicates a hazard which, if not avoided, might result in minor or moderate injury.

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

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

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

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

FIG. 7

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

ATTACHMENT CLUTCH SWITCH - Used to engage the mower blades, or other attachments mounted to your tractor.
LIGHT SWITCH POSITION - Turns the headlights on.
THROTTLE CONTROL - Used to control engine speed.
CHOKE CONTROL - Used when starting a cold engine.
FREE WHEEL CONTROL - Disengages transmission for pushing or slowly towing the tractor with the engine off.
CLUTCH/BRAKE PEDAL - Used for declutching and braking the tractor and starting the engine.
HEIGHT ADJUSTMENT KNOB - Used to adjust the mower cutting height.
HOURMETER - Indicates hours of operation.
AMMETER - Indicates charging (+) or discharging (-) of battery.
PARKING BRAKE - Locks clutch/brake pedal into the brake position.
MOTION CONTROL LEVER - Selects the speed and direction of tractor.
ATTACHMENT LIFT LEVER - Used to raise and lower the mower deck or other attachments mounted to your tractor.
LIFT LEVER PLUNGER - Used to release attachment lift lever when changing its position.
IGNITION SWITCH - Used for starting and stopping the engine.
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 “OFF” position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

IMPORTANT: LEAVING THE IGNITION SWITCH IN ANY POSITION OTHER THAN “OFF” WILL CAUSE THE BATTERY TO BE DISCHARGED, (DEAD).

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

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

TO USE THROTTLE CONTROL (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 cutting height is controlled by turning the height adjustment knob in desired direction.
- Turn knob clockwise (↑) to raise cutting height.
- Turn knob counterclockwise (↓) to lower cutting height.

The cutting height range is approximately 1-1/2” to 4”. The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.
- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first cut relatively high; the second to desired height.
TO 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 ADJUST 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 REALIGN 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.
- Lower mower with attachment lift control.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES - disengage attachment clutch control.

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

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.).
OPERATION

TO START ENGINE (See Fig. 8)

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.

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.

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.

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.

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°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.

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.

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.

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.
OPERATION

AUTOMATIC TRANSMISSION WARM UP

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

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

PURGE TRANSMISSION

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

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

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

- Place tractor safely on 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. Shut off engine and set parking brake.
- Engage transmission by placing freewheel control in driving 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).

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

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

Some adjustments will need to be made periodically to 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, check air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

**BEFORE EACH USE**
- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check operator presence and interlock systems for proper operation.
- Check for loose fasteners.

---

**MAINTENANCE SCHEDULE**

**FILL IN DATES AS YOU COMPLETE REGULAR SERVICE**

<table>
<thead>
<tr>
<th>TRACTOR</th>
<th>BEFORE EACH USE</th>
<th>EVERY 8 HOURS</th>
<th>EVERY 25 HOURS</th>
<th>EVERY 50 HOURS</th>
<th>EVERY 100 HOURS</th>
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<tr>
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<tr>
<td>Change Engine Oil (without oil filter)</td>
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<td>✓</td>
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<tr>
<td>Clean Air Filter</td>
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<tr>
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<td>✓</td>
<td>✓</td>
<td></td>
<td>1,2</td>
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<tr>
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<td>✓</td>
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</tr>
</tbody>
</table>

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**GENERAL RECOMMENDATIONS**

1. - Change more often when operating under a heavy load or in high ambient temperatures.
2. - Service more often when operating in dirty or dusty conditions.
3. - 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.

---

**LUBRICATION CHART**

**GENERAL PURPOSE GREASE**

**ENGINE**

**SPINDLE ZERK**

**FRONT WHEEL BEARING ZERK**

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

TRACTOR
Always observe safety rules when performing any maintenance.

BRAKE OPERATION
If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted. (See “TO ADJUST BRAKE” in the Service and Adjustments section of this manual).

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

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

OPERATOR PRESENCE SYSTEM
Be sure operator presence and interlock systems are working properly. If your tractor does not function as described, repair the problem immediately.
- The engine should not start unless the clutch/brake pedal is fully depressed and attachment control is in the disengaged position.
- When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- When the engine is running and the attachment is engaged, any attempt by the operator to leave the seat should shut off the engine.
- The attachment clutch should never operate unless the operator is in the seat.

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

BLADE REMOVAL (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.

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.
MAINTENANCE

- 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 SF-SJ. Select the oil's SAE viscosity grade according to your expected operating temperature.

<table>
<thead>
<tr>
<th>SAE VISCOSITY GRADES</th>
</tr>
</thead>
<tbody>
<tr>
<td>5W-30</td>
</tr>
<tr>
<td>10W-30</td>
</tr>
</tbody>
</table>

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 SF-SJ.
- Be sure tractor is on level surface.
- Oil will drain more freely when warm.

CLEAN AIR INTAKE/COOLING AREAS
To insure proper cooling, make sure the grass screen, cooling fins, and other external surfaces of the engine are kept clean at all times.
Every 100 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Make sure the cooling shrouds are reinstalled.

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

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.

AIR FILTER (See Fig. 17)
Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.
- Loosen knob and remove cover.

TO SERVICE PRE-CLEANER
- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth. Allow it to dry.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

TO SERVICE CARTRIDGE
- Replace a dirty, bent, or damaged cartridge.

NOTE: Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge.
- Remove nut and cartridge plate.
- Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- Check rubber seal for damage and proper position around stud. Replace if necessary.
- Reassemble air cleaner, cartridge plate, and nut.
- Reinstall air cleaner cover and secure by tightening knob.

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. 18)
The fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.
- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

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

We do not recommend using a garden hose 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.
SERVICE AND ADJUSTMENTS

WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

- 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. 19)

- Place attachment clutch in “DISENGAGED” position.
- If equipped, turn height adjustment knob to lowest setting.
- Lower mower to its lowest position.
- 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.
- 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 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.

- 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.

FIG. 19
SERVICE AND ADJUSTMENTS

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. 20 and 21)
- Raise mower to its highest position.
- Measure height from bottom edge of mower to ground level at front corners of mower. Distance “A” on both sides of mower should be the same.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

NOTE: Each full turn of adjustment nut will change mower height about 3/16”.
- Recheck measurements after adjusting.

FRONT-TO-BACK ADJUSTMENT (See Figs. 22 and 23)
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.
TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL (See Fig. 24)
- Park tractor on a level surface. Engage parking brake.
- Lower mower to its lowest position.
  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 (See Fig. 24)
- 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.

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

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.
- 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).
SERVICE AND ADJUSTMENTS

TO CHECK AND ADJUST BRAKE
(See Fig. 26)
Your tractor is equipped with an adjustable brake system which is mounted on the right side of the transaxle. If tractor requires more than 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 freewheel control in “transmission disengaged” position. Pull freewheel control out and into the slot and release so it is held in the disengaged position.
The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, 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.

TO REPLACE MOTION DRIVE BELT
(See Fig. 27)
Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on bottom side of left footrest.

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).
SERVICE AND ADJUSTMENTS

TRANAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT (See Fig. 28)
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.

TO REMOVE WHEEL FOR REPAIRS (See Fig. 29)
- Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
- Repair tire and reassemble.
- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
- Replace washers and snap retaining ring securely in axle groove.
- Replace axle cover.

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

TO START ENGINE WITH A WEAK BATTERY (See Fig. 30)

WARNING: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

If your battery is too weak to start the engine, it should be recharged. (See “BATTERY” in the MAINTENANCE section of this manual).
If “jumper cables” are used for emergency starting, follow this procedure:
IMPORTANT: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

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

TO REMOVE CABLES, REVERSE ORDER -
- BLACK cable first from chassis and then from the fully charged battery.
- RED cable last from both batteries.

TRANSMISSION REMOVAL/REPLACEMENT
Should your transmission require removal for service or replacement, it should be purged after reinstallation and before operating the tractor. See “PURGE TRANSMISSION” in the Operation section of this manual.

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

FRONT WHEEL TOE-IN/CAMBER
The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center/department.
SERVICE AND ADJUSTMENTS

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. 32)
- 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 procedures.

REPLACING BATTERY (See Fig. 31)

WARNING: Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc. Positive terminal must be connected first to prevent sparking from accidental grounding.

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

![Fig. 30](image)

![Fig. 31](image)
ENGINE

TO ADJUST THROTTLE CONTROL CABLE
(See Fig. 33)
The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:
• With engine not running, move throttle control lever to fast position.
• Check that speed control lever is against stop screw. If it is not, loosen casing clamp screw and pull throttle cable until lever is against screw. Tighten clamp screw securely.

TO ADJUST CHOKE CONTROL
(See Figs. 33 and 34)
The choke control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:
• With engine not running, move choke control (located on dash panel) to full choke position.

• Remove air cleaner cover, filter and cartridge plate to expose carburetor choke (See “AIR FILTER” in the Maintenance section of this manual).
• Choke should be closed. If it is not, loosen casing clamp screw and move choke cable until choke is completely closed. Tighten casing clamp screw securely.
• Reassemble air cleaner.

TO ADJUST CARBURETOR
The carburetor has been present at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, see engine manual.
High speed stop is factory adjusted. Do not adjust-damage may result.

IMPORTANT: NEVERTAMPERWITHTHEENGINEGOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER/DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.
STORAGE

Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more.

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 ETHERAL 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.
- 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

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

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>CORRECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine continues to run when operator leaves seat with attachment clutch engaged</td>
<td>1. Faulty operator-safety presence control system.</td>
<td>1. Check wiring, switches and connections. If not corrected, contact an authorized service center/department.</td>
</tr>
<tr>
<td>Poor cut - uneven</td>
<td>1. Worn, bent or loose blade. 2. Mower deck not level. 3. Buildup of grass, leaves, and trash under mower. 4. Bent blade mandrel. 5. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</td>
<td>1. Replace blade. Tighten blade bolt. 2. Level mower deck. 3. Clean underside of mower housing. 4. Replace blade mandrel. 5. Clean around mandrels to open vent holes.</td>
</tr>
<tr>
<td>Mower blades will not rotate</td>
<td>1. Obstruction in clutch mechanism. 2. Worn/damaged mower drive belt. 3. Frozen idler pulley. 4. Frozen blade mandrel.</td>
<td>1. Remove obstruction. 2. Replace mower drive belt. 3. Replace idler pulley. 4. Replace blade mandrel.</td>
</tr>
<tr>
<td>Headlight(s) not working (if so equipped)</td>
<td>1. Switch is “OFF”. 2. Bulb(s) or lamp(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse.</td>
<td>1. Turn switch “ON”. 2. Replace bulb(s) or lamp(s). 3. Check/replace light switch. 4. Check wiring and connections. 5. Replace fuse.</td>
</tr>
<tr>
<td>Battery will not charge</td>
<td>1. Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. Faulty alternator.</td>
<td>1. Replace battery. 2. Check/clean all connections. 3. Replace regulator. 4. Replace alternator.</td>
</tr>
<tr>
<td>Loss of drive</td>
<td>1. Freewheel control in “disengaged” position. 2. Motion drive belt worn, damaged, or broken. 3. Air trapped in transmission during shipment or servicing.</td>
<td>1. Place freewheel control in “engaged” position. 2. Replace motion drive belt. 3. Purge transmission.</td>
</tr>
<tr>
<td>Engine “backfires” when turning engine “OFF”</td>
<td>1. Engine throttle control not set between half and full speed (fast) position before stopping engine.</td>
<td>1. Move throttle control between half and full speed (fast) position before stopping engine.</td>
</tr>
</tbody>
</table>
TRACTOR - MODEL NO. YTH2548 (YTH2548A), PRODUCT NO. 954 57 19-84

SCHEMATIC

BATTERY

FUSE

RED BLACK

BLACK

BLACK

BLACK

NON-REMOVABLE

CONNECTIONS

REMOVABLE

CONNECTIONS

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

AMMETER (OPTIONAL)

BATTERY

FUSE

RED

RED

WHITE

WHITE

BLACK

BLACK

AMMETER (OPTIONAL)

IGNITION SWITCH

POSITION | CIRCUIT | "MAKE"
---|---|---
OFF | M + G + A1 | NONE
ON + LIGHTS | B + A1 | L + A2
ON | B + A1 | NONE
START | B + S + A1 | NONE

IGNITION SWITCH

POSITION | CIRCUIT
---|---
OFF | C + G, B + H
ON | C + F, B + E, A + D

SPARK PLUGS GAP (2 PLUGS ON TWIN CYL. ENGINES)

FUEL SHUT-OFF SOLENOID

REGULATOR

28 VOLTS AC @ 3600 RPM (REGULATOR DISCONNECTED)

ALTERNATOR

28 VOLTS AC @ 3600 RPM (REGULATOR DISCONNECTED)

CHARGING SYSTEM OUTPUT 15 AMP DC @ 3600 RPM (REGULATOR DISCONNECTED)

HOUR METER (OPTIONAL)

HEADLIGHTS

REMOVABLE CONNECTIONS

NON-REMOVABLE CONNECTIONS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.
REPAIR PARTS
TRACTOR - MODEL NO. YTH2548 (YTH2548A), PRODUCT NO. 954 57 19-84
ELECTRICAL
**REPAIR PARTS**

**TRACTOR - MODEL NO. YTH2548 (YTH2548A), PRODUCT NO. 954 57 19-84**

**ELECTRICAL**

<table>
<thead>
<tr>
<th>KEY NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>532 14 49-27</td>
<td>Battery 12 Volt 35 AMP</td>
</tr>
<tr>
<td>2</td>
<td>874 76 04-12</td>
<td>Bolt Hex Hd 1/4-20 unc x 3/4</td>
</tr>
<tr>
<td>8</td>
<td>532 12 48-86</td>
<td>Tray Battery</td>
</tr>
<tr>
<td>10</td>
<td>532 14 52-11</td>
<td>Bolt Brt Frt 1/4-20 x 75 Ainc</td>
</tr>
<tr>
<td>11</td>
<td>532 15 01-09</td>
<td>Holddown Battery Front Mount</td>
</tr>
<tr>
<td>12</td>
<td>532 14 57-69</td>
<td>Nut Push Nylon 1/4&quot; Battery Frt</td>
</tr>
<tr>
<td>16</td>
<td>532 17 61-38</td>
<td>Switch Interlock</td>
</tr>
<tr>
<td>21</td>
<td>532 18 37-59</td>
<td>Harness Asm Light W/4152j</td>
</tr>
<tr>
<td>22</td>
<td>532 00 41-52</td>
<td>Bulb Light #1156</td>
</tr>
<tr>
<td>24</td>
<td>532 17 89-09</td>
<td>Cable Battery</td>
</tr>
<tr>
<td>26</td>
<td>532 17 51-58</td>
<td>Fuse</td>
</tr>
<tr>
<td>27</td>
<td>873 51 04-00</td>
<td>Nut Keps Hex 1/4-20 unc</td>
</tr>
<tr>
<td>28</td>
<td>532 14 54-91</td>
<td>Cable Ground 6 Ga 21&quot; black</td>
</tr>
<tr>
<td>29</td>
<td>532 12 13-05</td>
<td>Switch Plunger Nc Gray</td>
</tr>
<tr>
<td>30</td>
<td>532 17 55-66</td>
<td>Switch Ign</td>
</tr>
<tr>
<td>33</td>
<td>532 14 04-01</td>
<td>Key Ign Molded Generic</td>
</tr>
<tr>
<td>40</td>
<td>532 18 80-27</td>
<td>Harness Ign.</td>
</tr>
<tr>
<td>42</td>
<td>532 15 43-36</td>
<td>Cover Terminal Red</td>
</tr>
<tr>
<td>45</td>
<td>532 12 28-22</td>
<td>Ammeter Rectangular 15 Amp</td>
</tr>
<tr>
<td>46</td>
<td>532 16 96-35</td>
<td>Meter Hour</td>
</tr>
<tr>
<td>50</td>
<td>532 17 46-51</td>
<td>Switch PTO</td>
</tr>
<tr>
<td>55</td>
<td>817 49 05-08</td>
<td>Screw Thdrol 5/16-18 x 1-1/2 Tyt</td>
</tr>
<tr>
<td>89</td>
<td>532 16 96-39</td>
<td>Bracket Snap-In Hourmeter</td>
</tr>
</tbody>
</table>

**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm.
REPAIR PARTS
TRACTOR - MODEL NO. YTH2548 (YTH2548A), PRODUCT NO. 954 57 19-84
CHASSIS AND ENCLOSURES
# REPAIR PARTS

**TRACTOR - MODEL NO. YTH2548 (YTH2548A), PRODUCT NO. 954 57 19-84**

**CHASSIS AND ENCLOSURES**

<table>
<thead>
<tr>
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<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>532 17 46-19</td>
<td>Chassis Stamping</td>
</tr>
<tr>
<td>2</td>
<td>532 17 65-54</td>
<td>Drawbar</td>
</tr>
<tr>
<td>9</td>
<td>532 19 02-51</td>
<td>Dash</td>
</tr>
<tr>
<td>10</td>
<td>872 14 06-08</td>
<td>Bolt Rdhd Sqnk 3/8-16 unc x 1</td>
</tr>
<tr>
<td>11</td>
<td>532 17 49-96</td>
<td>Panel Dash Lh</td>
</tr>
<tr>
<td>12</td>
<td>532 17 21-06</td>
<td>Panel Dash Rh</td>
</tr>
<tr>
<td>14</td>
<td>817 49 06-08</td>
<td>Screw Thdrol 3/8-16 x 1/2</td>
</tr>
<tr>
<td>17</td>
<td>532 18 99-77</td>
<td>Hood</td>
</tr>
<tr>
<td>20</td>
<td>532 18 06-79</td>
<td>Plate Mtg Battery/Fuel Tank</td>
</tr>
<tr>
<td>23</td>
<td>532 12 40-28</td>
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<td>280</td>
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**NOTE:** All component dimensions given in U. S. inches.

1 inch = 25.4 mm
# REPAIR PARTS

## TRACTOR - MODEL NO. YTH2548 (YTH2548A), PRODUCT NO. 954 57 19-84

### DRIVE

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<td>Pulley, Idler, V-Groove Plastic</td>
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<td>532 10 57-10</td>
<td>Link, Clutch</td>
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<td>Spring, Return, Clutch</td>
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<td>V-Belt, Ground Drive</td>
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<td>62</td>
<td>532 12 48-72</td>
<td>Cover, Pedal</td>
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### NOTES

- All component dimensions given in U.S. inches
- 1 inch = 25.4 mm
# REPAIR PARTS

**TRACTOR - MODEL NO. YTH2548 (YTH2548A), PRODUCT NO. 954 57 19-84**

**STEERING ASSEMBLY**

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<th>PART NO.</th>
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<td>Wheel Steering</td>
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<td>532 18 47-06</td>
<td>Axle Asm</td>
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<td>3</td>
<td>532 16 98-40</td>
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<td>Spindle Asm RH</td>
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<td>Bearing Race Thrust Harden</td>
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<td>Washer 25/32 x 1-5/8 x 16 Ga.</td>
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<td>812 00 00-29</td>
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<td>Adaptor Wheel Strg</td>
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<td>Washer 25/32 x 1 1/4 x 16 Ga.</td>
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<td>Spacer Brace Axle</td>
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<td>Bolt RDHD SQNK 3/8-16 x 2-1/4</td>
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<td>532 17 39-66</td>
<td>Washer Flat .781 x 1-1/2 x .14</td>
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<td>Bolt Shoulder 7/16-20</td>
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<td>532 17 55-53</td>
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<tr>
<td>95</td>
<td>532 18 89-67</td>
<td>Washer Hardened</td>
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**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm.
### Repair Parts

**Tractor - Model No. YTH2548 (YTH2548A), Product No. 954 57 19-84**

**Seat Assembly**

<table>
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<td>871 11 06-16</td>
<td>Bolt Fin Hex 3/8-16 x 1</td>
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<td>Washer Flat 13/32 x 1.0 x 10 Ga.</td>
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<td>Clip Push-In</td>
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<td>7</td>
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<td>Washer 13/32 x 1.0 x 14 Ga.</td>
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<td>Spacer Split 28 x .88 Zinc</td>
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<td>Spring Cprsn Plate</td>
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<td>Washer 17/32 x 1-3/16 x 12 Ga.</td>
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<td>25</td>
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**NOTE:** All component dimensions given in U.S. inches.

1 inch = 25.4 mm
REPAIR PARTS
TRACTOR - MODEL NO. YTH2548 (YTH2548A), PRODUCT NO. 954 57 19-84
DECALS

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WHEELS & TIRES

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<td>Tube Front (Service Item Only)</td>
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<td>532 13 83-36</td>
<td>Rim Asm 6&quot; front Silver Service</td>
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<td>6</td>
<td>532 12 49-57</td>
<td>Fitting Grease (Front Wheel Only)</td>
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<td>7</td>
<td>532 12 49-59</td>
<td>Bearing Flange (Front Wheel Only)</td>
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<td>8</td>
<td>532 13 83-37</td>
<td>Rim Asm 8&quot; rear Silver Service</td>
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<td>9</td>
<td>532 12 20-82</td>
<td>Tire R Ts 20 x 10-8 C Service</td>
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<td>10</td>
<td>532 12 49-26</td>
<td>Tube Rear (Service Item Only)</td>
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<td>11</td>
<td>532 17 50-39</td>
<td>Cap Axle Blk 1 50 x 1 00</td>
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<tr>
<td>- -</td>
<td>532 14 43-34</td>
<td>Sealant, Tire (10 oz. Tube)</td>
<td></td>
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</tbody>
</table>

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm
## REPAIR PARTS
### TRACTOR - MODEL NO. YTH2548 (YTH2548A), PRODUCT NO. 954 57 19-84

**ENGINE**

**OPTIONAL EQUIPMENT**
Spark Arrester

<table>
<thead>
<tr>
<th>KEY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>532 19 02-59</td>
<td>Control Throttle</td>
</tr>
<tr>
<td>2</td>
<td>817 72 04-08</td>
<td>Screw Hex Thd Cut 1/4-20 x 1/2</td>
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<tr>
<td>3</td>
<td>- - - - - -</td>
<td>Engine Kohler CV730 (Order Parts from Engine Manufacturer)</td>
</tr>
<tr>
<td>4</td>
<td>532 14 97-23</td>
<td>Muffler Asm Twin Lo-Tone</td>
</tr>
<tr>
<td>5</td>
<td>532 14 66-99</td>
<td>Exhaust Tube LH</td>
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<tr>
<td>6</td>
<td>532 14 67-00</td>
<td>Exhaust Tube RH</td>
</tr>
<tr>
<td>8</td>
<td>532 17 18-77</td>
<td>Bolt 5/16-18 Unc x 3/4 W/Sems</td>
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<tr>
<td>9</td>
<td>- - - - - -</td>
<td>Shield Browning</td>
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<td>Shield Browning</td>
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<tr>
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<td>Gasket Muffler (Order from Engine Manufacturer)</td>
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<td>14</td>
<td>532 14 84-56</td>
<td>Tube Drain Oil Easy</td>
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<tr>
<td>17</td>
<td>817 06 06-24</td>
<td>Screw 3/8-16 x 1-1/2</td>
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<tr>
<td>23</td>
<td>532 16 98-37</td>
<td>Shield Browning</td>
</tr>
<tr>
<td>25</td>
<td>532 19 02-60</td>
<td>Choke Control</td>
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<tr>
<td>26</td>
<td>873 92 06-00</td>
<td>Nut, Keps 3/8-24 unf</td>
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<td>29</td>
<td>532 13 71-80</td>
<td>Kit Spark Arrestor (Flat Scrn)</td>
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<td>31</td>
<td>532 17 90-22</td>
<td>Tank Fuel</td>
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<td>32</td>
<td>532 18 18-03</td>
<td>Cap Asm Fuel</td>
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<td>33</td>
<td>532 12 34-87</td>
<td>Clamp Hose Blk</td>
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<td>37</td>
<td>532 14 21-58</td>
<td>Line Fuel</td>
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<td>38</td>
<td>532 18 16-54</td>
<td>Plug Drain Oil</td>
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<td>41</td>
<td>532 13 92-77</td>
<td>Stem Tank Fuel</td>
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<td>45</td>
<td>817 00 06-12</td>
<td>Screw Hexwsh Thdr 3/8-16 x 3/4</td>
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<td>101</td>
<td>532 16 33-05</td>
<td>Nut Flange M8-1.25</td>
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<td>112</td>
<td>532 12 49-52</td>
<td>Bushing</td>
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<tr>
<td>116</td>
<td>532 18 43-62</td>
<td>Nut Hex Flange Toplock M8-1.25</td>
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</table>

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

1 inch = 25.4 mm
### REPAIR PARTS
TRACTOR - MODEL NO. YTH2548 (YTH2548A), PRODUCT NO. 954 57 19-84
MOWER LIFT

<table>
<thead>
<tr>
<th>KEY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>532 15 94-60</td>
<td>Wire Asm Inner/Spring W/Plunger LT</td>
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<td>2</td>
<td>532 15 94-71</td>
<td>Shaft Asm Lift RH w/Inf</td>
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<td>3</td>
<td>532 10 57-67</td>
<td>Pin Groove 1 500 Zinc</td>
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<tr>
<td>4</td>
<td>812 00 00-02</td>
<td>E Ring #5133-62</td>
</tr>
<tr>
<td>5</td>
<td>819 21 16-21</td>
<td>Washer 21/32 x 1 x 21 Ga</td>
</tr>
<tr>
<td>6</td>
<td>532 12 01-83</td>
<td>Bearing Nylon Blk 629 Id</td>
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<tr>
<td>7</td>
<td>532 12 56-31</td>
<td>Grip Handle Fluted Blk</td>
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<td>8</td>
<td>532 12 45-26</td>
<td>Button Plunger Black</td>
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<tr>
<td>9</td>
<td>532 17 53-70</td>
<td>Link Lift LH</td>
</tr>
<tr>
<td>10</td>
<td>532 17 53-71</td>
<td>Link Lift RH</td>
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<tr>
<td>11</td>
<td>532 12 46-70</td>
<td>Retainer Spring</td>
</tr>
<tr>
<td>12</td>
<td>532 17 55-62</td>
<td>Plate Asm Susp Front</td>
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<tr>
<td>13</td>
<td>873 35 08-00</td>
<td>Nut Jam Hex 1/2-13 unc</td>
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<tr>
<td>14</td>
<td>532 17 56-89</td>
<td>Trunnion</td>
</tr>
<tr>
<td>15</td>
<td>873 80 08-00</td>
<td>Nut Lock w/Wsh 1/2-13 unc</td>
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<tr>
<td>16</td>
<td>532 16 35-52</td>
<td>Retainer Spring</td>
</tr>
<tr>
<td>17</td>
<td>532 11 08-07</td>
<td>Nut Special</td>
</tr>
<tr>
<td>18</td>
<td>819 13 10-16</td>
<td>Washer 13/32 x 5/8 x 16 Ga.</td>
</tr>
<tr>
<td>19</td>
<td>532 12 48-74</td>
<td>Spring 2-1/8&quot;</td>
</tr>
<tr>
<td>20</td>
<td>532 16 94-84</td>
<td>Retainer Clip</td>
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### KEY PARTS

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<th>KEY</th>
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<tbody>
<tr>
<td>27</td>
<td>532 12 69-71</td>
<td>Rod Adj Lift Zinc 7.49 Wrk Lg</td>
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<tr>
<td>28</td>
<td>873 35 06-00</td>
<td>Nut Hex Jam 3/8-16 unc</td>
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<tr>
<td>29</td>
<td>532 13 80-57</td>
<td>Knob Inf 3/8-16 Unc Blk W/sym</td>
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<tr>
<td>30</td>
<td>532 15 02-33</td>
<td>Trunnion Infin Height</td>
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<td>31</td>
<td>532 17 62-05</td>
<td>Trunnion</td>
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<td>32</td>
<td>532 17 59-94</td>
<td>Nut Lift Link 7/16-20</td>
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<td>33</td>
<td>532 15 50-97</td>
<td>Indicator Height STLT</td>
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<td>532 12 39-35</td>
<td>Plug Hole Blk 1.485/1.515 Dia.</td>
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<tr>
<td>35</td>
<td>817 06 05-16</td>
<td>Screw 5/16-18 x 1</td>
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<tr>
<td>36</td>
<td>819 11 24-10</td>
<td>Washer 11/32 x 1-1/2 10 Ga.</td>
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<tr>
<td>37</td>
<td>532 15 50-98</td>
<td>Scale Ind. Height Blk.</td>
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<td>532 14 52-12</td>
<td>Nut Hex Flange Lock</td>
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<td>39</td>
<td>532 11 04-52</td>
<td>Nut, Push Phos &amp; Oil</td>
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<td>40</td>
<td>819 17 14-16</td>
<td>Washer 17/32 x 7/8 x 16 Ga.</td>
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<td>41</td>
<td>532 17 53-78</td>
<td>Arm Susp. Rear Lh</td>
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<tr>
<td>42</td>
<td>532 17 58-02</td>
<td>Arm Susp. Rear Rh</td>
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<td>43</td>
<td>532 17 55-60</td>
<td>Pin Flange</td>
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**NOTE:** All component dimensions given in U.S. inches
1 inch = 25.4 mm
## REPAIR PARTS

**TRACTOR - MODEL NO. YTH2548 (YTH2548A), PRODUCT NO. 954 57 19-84**

**MOWER DECK**

<table>
<thead>
<tr>
<th>KEY NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>532 18 18-48</td>
<td>Deck Weldment Mower 48</td>
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<tr>
<td>3</td>
<td>532 13 80-17</td>
<td>Bracket Asm., Sway Bar</td>
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<td>532 12 46-70</td>
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<td>6</td>
<td>532 17 80-24</td>
<td>Bar Sway Deck</td>
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<td>532 17 43-65</td>
<td>Bolt, 7/16 Asm. Blade</td>
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<td>532 18 00-54</td>
<td>Blade</td>
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<td>532 17 51-47</td>
<td>Shaft Asm. Mandrel Sealed</td>
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<td>532 17 43-58</td>
<td>Housing Mandrel 48&quot;</td>
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<td>532 11 04-85</td>
<td>Bearing, Ball, Mandrel</td>
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<td>16</td>
<td>532 17 44-93</td>
<td>Stripper, Mower</td>
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<td>17</td>
<td>872 11 06-10</td>
<td>Bolt Rdhd Sq Neck 3/8-16 x 1.25</td>
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<td>872 14 05-05</td>
<td>Bolt, Carriage 5/16-18 x 5/8</td>
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<td>532 13 28-27</td>
<td>Bolt, Hex Head, Shoulder 5/16-18</td>
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<td>Baffle, Vortex Mower</td>
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<td>873 68 05-00</td>
<td>Nut, Crownlock 5/16-18 unc</td>
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<td>532 10 53-04</td>
<td>Cap, Sleeve</td>
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<td>Spring, Torsion</td>
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<td>Nut, Push</td>
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<td>Shield, Deflector Mower</td>
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<td>532 13 14-91</td>
<td>Rod, Hinge</td>
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<td>Screw, Thdroll, Washer Head</td>
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<td>532 18 76-90</td>
<td>Washer, Spacer Mower Vented</td>
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<td>532 17 78-65</td>
<td>Pulley, Mandrel</td>
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<td>532 17 83-42</td>
<td>Nut, Flg. Top Lock Cntr. 9/16</td>
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<td>532 17 79-68</td>
<td>Pulley, Idler, Flat</td>
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<td>Pulley, Idler, Driven</td>
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<td>Spacer, Retainer</td>
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<td>532 17 43-73</td>
<td>Arm, Idler Secondary</td>
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<td>Cover, Mandrel Deck</td>
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<td>532 13 77-29</td>
<td>Screw, Thdroll, 1/4-20 x 5/8</td>
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<td>47</td>
<td>532 18 08-08</td>
<td>V-Belt, Mower, Secondary</td>
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<td>532 17 43-68</td>
<td>V-Belt, Mower, Primary</td>
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<td>49</td>
<td>873 90 06-00</td>
<td>Nut, Lock Flg. 3/8-16 unc</td>
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<td>50</td>
<td>872 11 06-12</td>
<td>Bolt, Carriage 3/8-16 x 1-1/2 Gr. 5</td>
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<td>52</td>
<td>532 17 58-20</td>
<td>Pulley Idler Flat 46 Pri. Drive</td>
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<td>874 78 06-16</td>
<td>Bolt Fin Hex 3/8-16 x 1</td>
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<td>55</td>
<td>872 14 06-08</td>
<td>Bolt Rdhd Sqnk 3/8-16 x 1</td>
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<td>56</td>
<td>532 15 59-86</td>
<td>Bar Pnt Adjusting Wheel Gauge</td>
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<tr>
<td>57</td>
<td>532 15 69-41</td>
<td>Pin Head Rivet</td>
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<td>72</td>
<td>819 13 13-12</td>
<td>Washer 13/32 x 13/16 x 12</td>
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<td>91</td>
<td>532 18 05-35</td>
<td>Bracket, Asm Noseroller, RH 48</td>
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<td>Nut Lock Hex w/Ins 3/8-16</td>
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<td>94</td>
<td>532 17 60-66</td>
<td>Roller, Nose 48&quot;</td>
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<td>532 18 05-34</td>
<td>Bracket, Asm Noseroller LH 48</td>
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<td>532 17 85-15</td>
<td>Washer Hardened</td>
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<td>532 17 94-79</td>
<td>Spring Primary Drive</td>
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<td>532 18 40-58</td>
<td>Pulley Idler &quot;V&quot;</td>
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<td>Bolt RDHD Sqnk 3/8-16 unc x 2</td>
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<td>532 17 50-16</td>
<td>Arm Spring Secondary</td>
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<td>111</td>
<td>532 17 46-10</td>
<td>Arm Spring Fixed Tension</td>
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<td>872 11 05-06</td>
<td>Bolt RdhdSqnk 5/16-18 unc x 3/4</td>
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<td>532 18 42-19</td>
<td>Bolt, Shoulder</td>
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<td>532 13 39-57</td>
<td>Gauge Wheel</td>
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<td>873 93 06-00</td>
<td>Nut, Centerlock 3/8-16 unc</td>
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<td>Washer 3/8 x 7/8 x 14 Ga.</td>
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<td>Spring Secondary Drive</td>
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<td>Arm, Idler, Primary Deck</td>
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<td>130</td>
<td>817 00 06-16</td>
<td>Screw 3/8-16 x 1.0</td>
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<td>131</td>
<td>819 13 16-06</td>
<td>Washer 13/32 x 1 x 6 Ga.</td>
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<td>132</td>
<td>817 00 06-12</td>
<td>Screw Hexwsh Thdr. 3/8-16 x 3/4</td>
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<tr>
<td>182</td>
<td>532 17 91-27</td>
<td>Rod Roller Nose</td>
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<td>183</td>
<td>532 16 35-52</td>
<td>Retainer Spring</td>
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<td>184</td>
<td>532 17 39-79</td>
<td>Keeper Belt Idler</td>
</tr>
<tr>
<td>- -</td>
<td>532 17 43-57</td>
<td>Mandrel Assembly (Includes Housing, Shaft and Shaft Hardware Only-Pulley Not Included)</td>
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<td>- -</td>
<td>532 18 63-53</td>
<td>Replacement Mower, Complete (Std. Deck-Order separately nose roller components key nos. 91, 94, 95, 132, 182, 183)</td>
</tr>
</tbody>
</table>

**NOTE:** All component dimensions given in U.S. inches
1 inch = 25.4 mm
WARNING: To avoid serious injury, operate your tractor up and down the face of slopes, never across the face. Do not mow slopes greater than 15 degrees. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION

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

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 noncommercial, nonprofessional, noninstitutional or nonincome producing use, except as herein stated.

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

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

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

90 Day Warranty: Automatic Mower: Chain saws, power cutters, stump grinders, pole saws, pole pruners, snow blowers, model series 580 & 600 walk-behind mowers and commercial turf equipment or any Husqvarna product used for commercial, 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.

SECTION 4: EXCEPTIONS AND LIMITATIONS

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

(1) Accident, abuse, misuse, negligence and neglect, including theft, 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 MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THESE PRODUCTS IS LIMITED IN DURATION TO THE WARRANTY PERIOD AS DEFINED IN THE LIMITED WARRANTY STATEMENT. HUSQVARNA RESERVES THE RIGHT TO CHANGE OR IMPROVE THE DESIGN OF THE PRODUCT WITHOUT NOTICE, AND DOES NOT ASSUME OBLIGATION TO UPDATE PREVIOUSLY MANUFACTURED PRODUCTS.

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

SECTION 5: CUSTOMER RESPONSIBILITIES

The product must exhibit reasonable care, maintenance, operation 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 the 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.

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