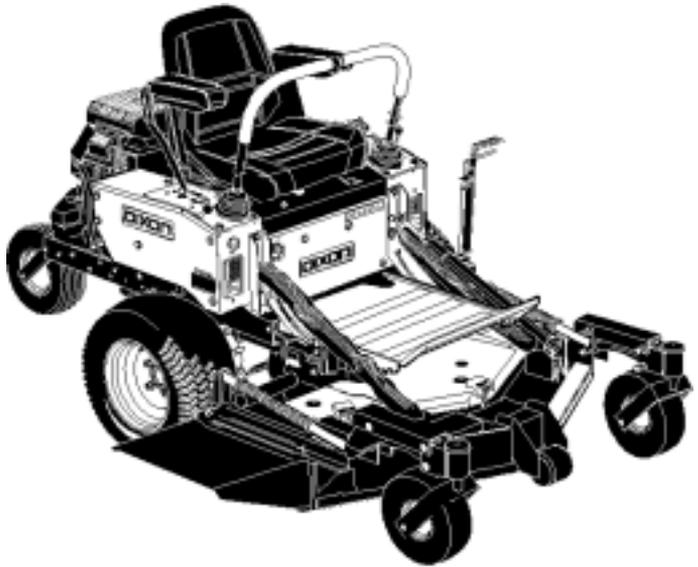


OPERATOR'S MANUAL



6000 SERIES
FORWARD MOUNT



ZTR®
2002

IMPORTANT - READ CAREFULLY

The Dixon[®] ZTR[®] Mower is both easy and fun to operate. However, any power mower must be operated properly to be safe. It is not a toy or a recreational vehicle. Before you start to use the mower, read the operator's manual carefully and become completely familiar with the controls.

The information contained in this manual applies to all Dixon[®] ZTR[®] 6000 Series Commercial Mowers. Your Dixon dealer will gladly answer any questions.

See your dealer for warranty service, parts and repairs.

INDEX

	Page
Safety.	4-11
Warranty Policy.	12
Specifications.	13
Seat Adjustment Instructions.	14
Controls.	15-17
Operation Instructions.	18-24
Care & Maintenance.	25-39
Troubleshooting.	40-41
Standard Service Parts List.	42

6000 Series Forward Mount
Part No. 13090-0601

SAFETY

***RIDING LAWN MOWERS,
IF IMPROPERLY OPERATED,
CAN CAUSE SERIOUS INJURY OR DEATH.***

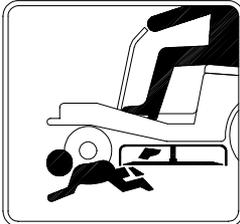
The most common causes of injury to the operator or bystander...



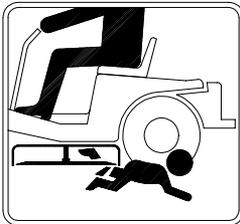
BLADE CONTACT



TIP OVER



RUN OVER



BACK OVER

...read and understand this manual to prevent injuries.

SAFETY



Safety Alert Symbol

When you see this symbol,
BE ALERT to the potential for injury.

*Follow recommended safety precautions
and safe operating practices.*



DANGER

(highlighted in red)

indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

(highlighted in orange)

indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

(highlighted in yellow)

indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

SAFETY

Failure to observe the following safety instructions could result in serious injury or death.

GENERAL OPERATION:

- Read, understand, and follow all instructions in the manual and on the mower before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the mower.
- 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 mower 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 deflector in place.
- Slow down before turning.
- Never leave a running mower unattended. Always turn off blades, set parking brake, stop engine and remove key before dismounting.

SAFETY

GENERAL OPERATION (continued):

- 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 mower 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 mower into a trailer or truck. Do not ride the mower when loading and unloading.
- Always wear safety goggles or safety glasses with side shields when operating mower.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Follow the manufacturer's recommendation for wheel weights and counterweights.
- Maintain or replace safety & instruction labels as needed.

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



SLOPE OPERATION:

Slopes are a major factor related to loss-of-control and tip-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 across the slope with your Dixon ZTR - never up or down.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts or bumps. Uneven terrain could overturn the mower. Tall grass can hide obstacles.
- Use slow speed. Tires may lose traction on slopes even though the brakes are functioning properly.
- Use extra care with grass catchers or other attachments. These can change the stability of the mower.
- 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 down the slope.
- If front wheels lift off the ground, pull the levers back to stabilize the mower.

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 mower by putting your foot on the ground.

SAFETY

CHILDREN:

Tragic accidents can occur if the operator is not alert to the presence of children.

Children are attracted to lawn mowers and the mowing activity.

NEVER assume children will stay where they were last seen.

Be alert to avoid accidents.

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

 **SAFETY*****SERVICE:***

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove fuel cap or add fuel with engine running. Allow engine to cool before refueling.
 - Do not smoke while refueling.
 - Never refuel the mower indoors.
 - Never store the mower or fuel container inside a building where there is an open flame.
 - If fuel is spilled on clothing, change clothing immediately.
 - To prevent fire and explosion caused by static electricity:
 - Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.
 - When practical, remove fuel-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a fuel dispenser nozzle.
 - If a fuel dispenser nozzle must be used, keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.

SAFETY

SERVICE (continued):

- Never run a mower inside a closed area. The exhaust fumes are toxic.
- Keep nuts and bolts tight, especially blade attachment bolts, and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep mower free of grass, leaves, or other debris buildup. Clean up oil or fuel spillage. Allow mower 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 unless otherwise specified.
- 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 original equipment parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Batteries contain sulfuric acid. To prevent burns avoid contact with skin, eyes and clothing. To prevent a fire or explosion keep sparks and open flames away from battery.
- Before disconnecting the negative (-) ground cable, make sure all switches are OFF.

DIXON INDUSTRIES, INC.
a BLOUNT company
Airport Industrial Park
P.O. Box 1569
Coffeyville, Ks 67337-0945
620-251-2000
Fax 620-251-4117

DIXON LIMITED WARRANTY POLICY - COMMERCIAL MODELS 6000 & 7000 Series

WARRANTY: Home Owner Application: This Dixon Warranty term is for a period of two (2) years from date of purchase. Commercial Application: Dixon mowers used for commercial application are warranted for one (1) year from the date of purchase or 400 hours whichever comes first. Commercial use is specified as use other than, or in addition to, mowing at owner's primary place of residence.

DIXON ZTR MOWERS ARE WARRANTED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP AND PROVIDES FOR REPLACEMENT OR REPAIR OF PARTS INCLUDING LABOR COSTS. THIS WARRANTY IS SUBJECT TO THE FOLLOWING CONDITIONS AND LIMITATIONS:

1. Warranty applies only to original retail purchaser of new & unused mowers & accessories.
2. All Dixon warranty must be accomplished by authorized Dixon dealers & in accordance with Dixon warranty policy & allowances. All warranty claims must be approved by Dixon Industries, Inc.
3. Battery warranty: Limited to 90 days from date of purchase.
4. Accessories Warranty (Grass Catchers, Snow Blades, Covers, etc.): Limited to 90 days from date of purchase.
5. Warranty does not apply to damage in transit or incidents of misuse, negligence, accidents, or alteration. The use of parts or components other than those supplied by Dixon Industries, Inc. VOIDS ALL WARRANTY.
6. The following items are not covered by this warranty policy:
 - a. Pick up and delivery charges for transportation of mower to and from an authorized Dixon dealer's place of business.
 - b. Routine maintenance or adjustments.
 - c. Belts/cutting blades/hydrostatic filters.
 - d. Engines - All engines used on Dixon ZTR mowers are warranted by the individual engine manufacturer.
 - e. Any costs or expense of providing substitute equipment while repair work is being performed on a warranted mower.
7. There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to the same duration of the express warranty, and to the extent permitted by law any and all implied warranties are excluded. Liabilities for consequential damages under any and all warranties are excluded.

Blue/Customer Yellow/Dealer White/Dixon Ind.

WARRANTY VALIDATION: At the time of sale, selling dealer must review each portion of this warranty document, complete the information section below, secure customer's signature & send copy to Dixon Industries, Inc.

DATE OF PURCHASE _____ MODEL _____ S/N _____

Owner's Name _____

Dealership _____

Address _____

Address _____

SPECIFICATIONS

6000 Series Forward Mount

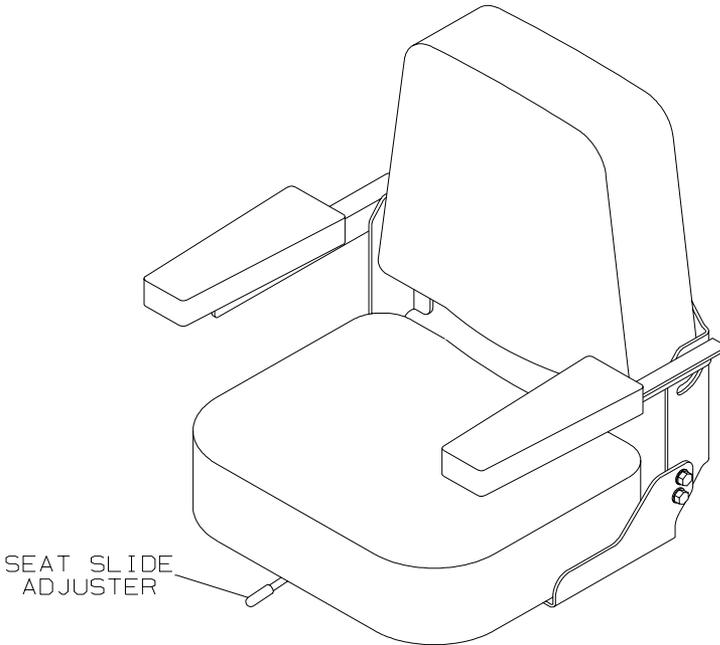
CHASSIS:	Sheet metal construction frame.
BODY:	Folded sheet metal. Seat lifts up for access to battery and belt service.
SEAT:	Designed for operator comfort by use of high density closed cell foam padded back and arm rests, upholstered with Cordura™ water-repellent fabric. Seat is adjustable fore and aft.
MOWER DECK:	Two decks are available. Both are made of 12 GA fabricated welded construction with 10 GA reinforcement plate. Three blades combine for either a 48" or 60" cut width. Cut height approximately 1" to 5" via 9 position lift handle.
BLADE DRIVE:	Electric clutch.
DRIVE SYSTEM:	Each rear wheel is independently driven by a HydroGear BDU-10L Series 70 hydrostatic transmission. The hydrostatic transmissions, in turn, power a fully enclosed HydroGear gearbox.
ENGINE:	23 HP Kohler Command, 4-cycle, v-configuration, overhead valve, air cooled, gasoline, horizontal shaft, aluminum head, and crankcase with cast iron liners, full pressure lubrication/full flow filter, pulse-type fuel pump, fixed jet carburetor w/smart-choke, electronic ignition, in-line fuel filter, dual element air cleaner.
STARTING SYSTEM:	Electric by key switch operation with safety interlocks on parking brake and blade drive clutch.
TIRES:	Front 4.10 x 3.50-4 Rear 6.00 x 13.00-5 Drive 10.0 x 10.00-20
RECOMMENDED TIRE PRESSURE:	Front 16 lbs. Rear 12 lbs.
CAPACITIES:	Fuel - 5 gallons Hydrostat oil tank - 3 quart with in-line 40 micron filter Hydrostat oil recommendation, refer to page 29 Engine - 2 quarts SAE 10W30 (with filter)
DIMENSIONS:	Width 57-1/2" (48" Deck) 69-1/2" (60" Deck) Height 45-1/2" Length 96" (48" Deck), 101" (60" Deck) Weight 960 lbs. (48" Deck), 1030 lbs. (60" Deck)

Additional information provided in service instructions under the individual component.

SEAT ADJUSTMENT INSTRUCTIONS

6000 SERIES

1. Grasp seat slide adjuster and move it into adjustment position.
2. Slide seat forward or backward.
3. Release seat slide adjuster.



CONTROLS

CONTROL LEVERS

Note: For access to the seat, move control levers to neutral position and swing them outward.

TO GO FORWARD:

- From neutral position, gently push both control levers forward.
- To increase speed, move levers further forward.

TO GO BACKWARD:

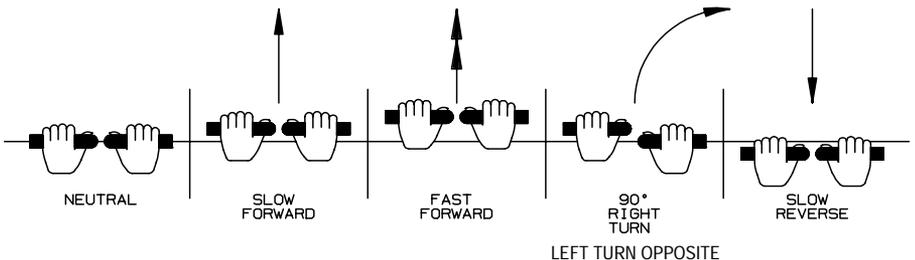
- From neutral position, gently pull both control levers toward you.

TURNING:

- Turning is controlled by moving one control lever slightly forward or rearward of the other.
- To turn left, move left lever rearward of the right lever.
- To turn right, move right lever rearward of the left lever.
- To turn on mower's own axis (zero turning radius), stop and move one lever to reverse position and the other to forward position.

BRAKING:

- To brake mower, move both levers in direction opposite of travel.



Note: The pressure required to operate the mower is very light.

CONTROLS

PARKING BRAKE

The parking brake is designed to hold the mower from moving and is not intended for use in stopping the mower while it is in motion.



CAUTION Engage parking brake before starting engine.

TO SET PARKING BRAKE

The hand operated parking brake is located at the right hand side of the mower.

To engage brake, pull rearward.

To release brake, move lever forward.

NOTE: Always set parking brake before dismounting.
Release parking brake before moving mower.

HYDRO-GEAR DRIVE SYSTEM:

Allows the mower to turn on its own axis (zero turning radius).

Each lever controls one side of the mower.

CONTROLS

MOWER BLADE SWITCH:

Located on the control panel to the operator's right.

To engage blades: pull up on switch

To disengage blades: push down

CHOKE CONTROL LEVER:

Located on control panel to operator's left. Use to start a cold engine.

THROTTLE CONTROL LEVER:

Located on control panel to operator's right. Controls engine speed, slow to maximum.

While mowing, throttle control should be set to MAXIMUM or wide open setting to insure adequate cooling of the engine and to maintain mower deck blade speed.

CIRCUIT BREAKER:

Located on control panel to the operator's right. Protection of the electrical system is by (2) 30 amp circuit breakers.

If circuit breaker trips, push button to reset.

If condition repeats, consult dealer for inspection and repair.

MOWER DECK CUT HEIGHT LIFT LEVER:

Located to the right and front of the operator.

Controls the cutting height.

Nine positions of adjustment.

Depress trigger and move lever forward to lower deck.

Depress trigger and pull lever back to raise deck.

Note: To achieve a 1" to 3" cutting range, the bar connecting the deck lift handle and the rear of the deck must be in the first hole. To achieve a 3" to 5" range, the bar connecting the deck lift handle and the rear of the deck must be in the second hole.

Note: Always use high position for transport.

OPERATION INSTRUCTIONS

The safe and successful operation of the 6000 Series will depend upon the operator having the correct knowledge of all controls used on the mower and making good judgements about the terrain to be mowed.

NEVER allow anyone to operate the mower without complete knowledge of all controls and their functions.

During initial operation, "learning to drive", set throttle at slow speed. Sound judgement by the operator will prevent accidents.

TOWING

Towing a trailer or other attachment that is too heavy could damage the drive or cause the mower to become unstable. Limit loads to 500 pounds or less with this mower.

BEFORE OPERATING MOWER:

1. Read and observe all safety instructions on your mower and in the manual.
2. Read engine manufacturer's operating and maintenance instructions.
3. Check engine oil.
4. Check fuel cap to be sure it is in place.
5. Be sure parking brake is on.
6. Be sure that mower blade drive is off.
7. Know how to stop engine. (Turn key to off position).

OPERATION INSTRUCTIONS



INTERLOCK SWITCH TEST

Note: Operator must be seated in normal operating position to perform these tests.

1. With engine off, turn mower blade on and attempt to start engine.
ENGINE SHOULD NOT START.
2. With engine off, move control levers in and attempt to start engine.
ENGINE SHOULD NOT START
3. In a SAFE AREA, away from bystanders, start the engine, place throttle setting at maximum or full. Engage the blade drive through the electric clutch switch. Raise slightly off of seat.
ENGINE SHOULD STOP.
4. With engine running, set parking brake and move levers inboard.
ENGINE SHOULD STOP.

If any safety check fails, do not operate the mower until the system has been checked and repaired by an authorized Dixon ZTR dealer.

OPERATION INSTRUCTIONS

STARTING INSTRUCTIONS (cold engine):

1. Operator must be seated in normal operating position.
2. Set parking brake.
3. Push choke control lever fully forward.
4. Push throttle control lever to 1/2 setting.
5. Insert ignition key and turn to "start" position. When engine starts, release ignition key. Key will return to "run" position.
6. Once engine starts to warm up, slowly move choke control lever to the fully closed position.
7. Move throttle control lever to the wide open or maximum setting for actual operation of the mower deck.
8. Engine must be operated at wide open or maximum setting to insure adequate lubrication, cooling and cut quality of the mower deck.

Note: 6000 Series mowers will require a slightly longer warm-up period using partial choke settings.



CAUTION

Do not operate the engine in an enclosed area due to the harmful exhaust gas produced.

OPERATION INSTRUCTIONS

STARTING INSTRUCTIONS (engine has been operated):

1. Operator must be seated in normal operating position.
2. Set parking brake.
3. Push throttle control lever to 1/4 to 1/2 setting.
5. Insert ignition key and turn to "start" position. When engine starts, release ignition key. Key will return to "run" position.
6. Move throttle control lever to the wide open or maximum setting for actual operation of the mower deck.

Note: Model 6023 may require partial choke setting to insure adequate engagement of the mower deck. As engine warms, open choke lever.

7. Engine must be operated at wide open or maximum setting to insure adequate lubrication, cooling and cut quality of the mower deck.

Note: 6000 Series mowers will require a slightly longer warm-up period using partial choke settings.



CAUTION

Do not operate the engine in an enclosed area due to the harmful exhaust gas produced.

Notes: On initial operation, set throttle at slow speed.

Engine cannot be restarted when blades are engaged.

Safety switches stop engine when operator leaves seat while mower blades are engaged.

Always turn engine off when leaving mower.

OPERATION INSTRUCTIONS

MOWING INSTRUCTIONS:



CAUTION Be sure that deflector is properly installed on the discharge chute.

1. Start engine and set throttle at full speed.
2. Set desired cut height.
3. Release park brake.
4. Move control levers in and operate per the control instructions on Page 15.



CAUTION Check the area to assure there is no one near.

5. Engage mower blades.

OPERATION INSTRUCTIONS

To Free Wheel Machine

(unlock transmission for towing):

The free wheel levers are located on each side of the mower below the seat mount (flip up the foot deck to access them). Lift the levers slightly, push them to the rear and down to release the transmissions for free wheeling. To engage the transmissions, lift the levers slightly, pull them forward and then down.



***BEFORE PUSHING OR TOWING TRACTOR,
TRANSMISSION MUST BE UNLOCKED,
AND PARKING BRAKE RELEASED. THE
TRACTOR SHOULD NEVER BE PUSHED
OR PULLED OVER TWO (2) MPH FOR
ANY APPRECIABLE DISTANCE.***

OPERATION INSTRUCTIONS

GRASS HEIGHT AND CUTTING SUGGESTIONS:

Do not attempt to cut grass when it is wet.

If the grass is tall, place the mower deck cut height lever in the top or second notch. "Initially" overlap cutting swaths instead of a full swath with each pass. Some applications may require a second cutting.

Keep the underside of the mower deck clean.

Maintain sharp blades throughout the cutting season.

As a rule of thumb, never cut off more than 1/3 of the total grass blade length.

Correct mowing height can reduce weeds and disease by 50% to 80%.

The following grass cut heights are based on adequate moisture conditions and normal thatch build-up in a healthy lawn. Some locations and applications may require slightly different cut heights. If in doubt, consult your local lawn professional for assistance.

Grass Types	Best Cut Heights
Bermudagrass	1 - 2"
Bluegrass	2 - 3"
Buffalograss	1 ^{1/2} - 3"
Ryegrass	2 - 3"
Tall Fescue	3 - 3 ^{1/2} "
Zoysiagrass	1 - 3"

CARE AND MAINTENANCE



CAUTION

*Before performing any maintenance, turn off engine,
allow to cool & remove key.*

Use extreme care when working on machinery.

*Do not wear watch or jewelry. Do not wear loose fitting clothes,
and observe all common safety practices with tools.*

MAINTENANCE SCHEDULE

Check crankcase oil level.	before each use
Clean grass from hydrostat fans and cooling fans.	before each use
Check air intake screen.	after each use
Clean grass under deck.	after each use
Check tire pressure.	every 10 hours
Check mower blades for sharpness.	every 10 hours
Check air filter element.	every 10 hours
Service air filter element.	every 25 hours
Check hydrostatic transmission fluid.	every 25 hours
Service engine air filter pre-cleaner.	every 25 hours
Grease driveline (3 fittings).	every 50 hours
Grease jack shaft.	every 50 hours
Grease deck pivot tube.	every 50 hours
Check adjustment of P.T.O. clutch.	every 50 hours (or if blades do not stop within 7 seconds from switch disengagement)
Check all belts.	every 50 hours (20 hours break-in)
Replace air filter element.	every 100 hours
Change engine crankcase oil and filter.	every 100 hours (5 hours break-in)
Check spark plugs.	annually or every 200 hours
Change oil in deck gearbox.	annually or every 500 hours
Change hydrostat oil & oil filter (7252).	every 500 hours (100 hours break-in)

Perform these maintenance procedures more frequently under extremely dusty, dirty conditions. Replace decals when illegible.

CARE AND MAINTENANCE

ENGINE:

For complete maintenance and operating information of the engine, please refer to the maintenance instructions furnished by the engine manufacturer and included in your Zero Turn Radius mower information packet.

Note: Air intake screen must be kept clean. If plugged, engine may be seriously damaged by overheating.

BATTERY:



CAUTION

Battery contains sulfuric acid electrolyte which is poisonous and corrosive.

This is a maintenance-free battery and the fluid level cannot be checked.

Charge battery if required.

OFF SEASON BATTERY STORAGE:

DO NOT remove battery from mower.

Clean top of battery and terminals with baking soda and water.

Identify each cable so they can be reconnected to the correct terminal.

Disconnect cables from terminals. ALWAYS disconnect ground cable first and reconnect last.

Charge battery.

TIRES:

Correct tire pressure is essential for efficient operation of the mower. Check tire pressure periodically. Inflate tires to the pressure listed below.

Front tires	-	16-20 lbs.
Rear tires	-	8-14 lbs.

Lug nuts or lug bolts should be checked regularly for tightness.

CARE AND MAINTENANCE



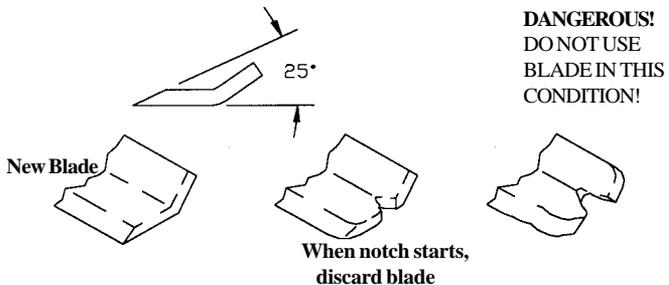
CAUTION

Stop engine and remove ignition key for safety. Wear heavy, thick gloves when holding onto cutter blade, avoid the sharp edge of the blade.

MOWER BLADES:

Check sharpness of mower blades after every 10 hours of operation. To sharpen blades, proceed as follows.

1. Remove bolt and flat washer mounting blade on shaft. Remove blade.
2. Blades should be discarded when worn excessively.
3. Sharpen blade with a hand file, electric grinder or blade sharpener. Wear gloves and eye protection when sharpening. Grind blade at original 25 degree bevel.
4. Check balance of blade by positioning the blade on a nail or blade balance pedestal. Grind the blade on the end that is heavier until both sides balance.
5. Install blade, flat washer & bolt. Make sure to tighten bolt to 60 ft. lbs.



CARE AND MAINTENANCE

BELTS:

The main hydro drive belt should be checked after the first 10 hours and every 50 hours thereafter. Replace any belts found to be in poor condition. The deck belt is equipped with a spring loaded belt tightener and does not require tightening adjustments. The hydrostatic transmission belt is adjusted manually (see page 32 for tensioning instructions).

LUBRICATION:

- A. Engine: Follow engine manufacturer's recommendation.
- B. Deck spindles: Lubricate with 3 "shots" only, every 100 hours.
- C. Hydrostatic transmission and filter.
- D. P.T.O. Shaft: Grease every 50 hours.
- E. Deck lift rod weldment: Grease every 50 hours.
- F. Deck Gearbox: See page 31.

SCALPER ROLLER BOLTS:

Scalper roller bolts should be tightened until the spacer bushing will not run relative to the scalper bracket to prevent undue wear on the end of the spacer bushing and the scalper bracket. The proper torque is from 17 to 20 ft. lbs.

CARE AND MAINTENANCE

HYDROSTATIC TRANSMISSION:

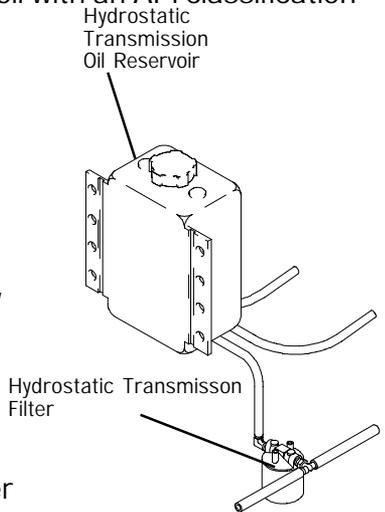
Before each use, check to be sure that the cooling fins of the hydrostatic transmission are clean. Excessive accumulation of oil, dirt, or trash may cause the transmission to overheat. NEVER WASH ACROSS TOP OF RESERVOIR with water or steam. Fill reservoir as required per instructions below.

CHECKING & REPLENISHING OIL IN HYDROSTATIC TRANSMISSION:

Check the oil level in hydrostatic transmission oil reservoir after every 25 hours of usage. Do not remove the reservoir cap to check the oil level as this allows dirt to enter the transmission. Replenish as needed with SAE 20W-50 motor oil. Any high quality engine oil with an API classification of SG/CD is recommended.

- A. Wipe area of oil reservoir cap clean of dirt & debris.
- B. Remove oil reservoir cap.
- C. Fill to line marked on reservoir.
- D. Do not overfill.
- E. When checking oil level, be very careful to keep the reservoir clean and fill only with clean oil.

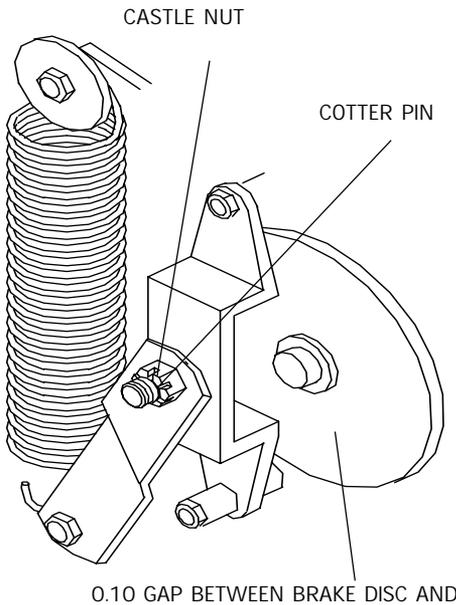
Change the oil in the reservoir and hydrostat transmission oil filter after the first 100 hours of use. Then every 500 hours after that. Remove the filter and be sure all oil has drained from the reservoir. Replace with new Dixon filter P/N 7252 and SAE 20W-50 motor oil.



CARE AND MAINTENANCE

PARKING BRAKE ADJUSTMENT

With the brake handle in the release position, remove the cotter pin from the castle nut. Insert a 0.010 feeler gauge between the brake disc and the brake puck. Tighten the castle nut with the feeler gauge inserted until the gauge fits snugly between the disc and puck. The gap should not be so tight that the feeler gauge cannot be reinserted after removal. Back the castle nut to the closest pin hole and reinsert the cotter pin. Repeat for other side. See picture below.



CARE AND MAINTENANCE

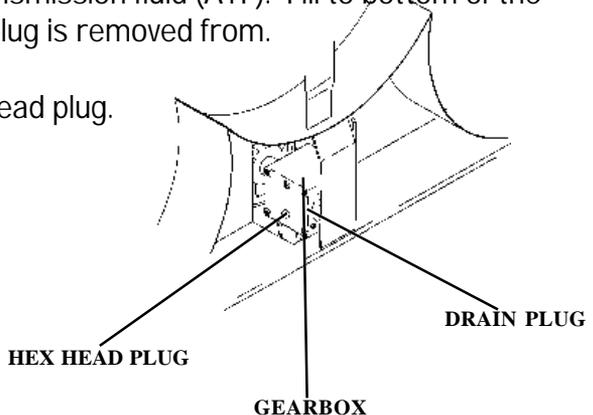
CHECK DECK DRIVE GEARBOX FLUID LEVEL:

The fluid level only needs to be checked if oily residue is found on the gearbox housing.

1. Rotate deck into upright position (see deck servicing procedure).
2. Remove the hex head plug at the low end of the gearbox housing. (Plug closest to the drive shaft.) The fluid level should be level with the bottom of the threaded hole.

CHANGING THE FLUID IN DECK DRIVE GEARBOX:

1. Rotate the deck into the upright position & remove drain plug from bottom of gearbox.
2. Lower deck to drain fluid.
3. When the fluid is drained from gearbox raise deck back up and reinsert the drain plug.
4. Remove hex head plug from side of gearbox and fill with automatic transmission fluid (ATF). Fill to bottom of the hole that the plug is removed from.
5. Reinstall hex head plug.



CARE AND MAINTENANCE

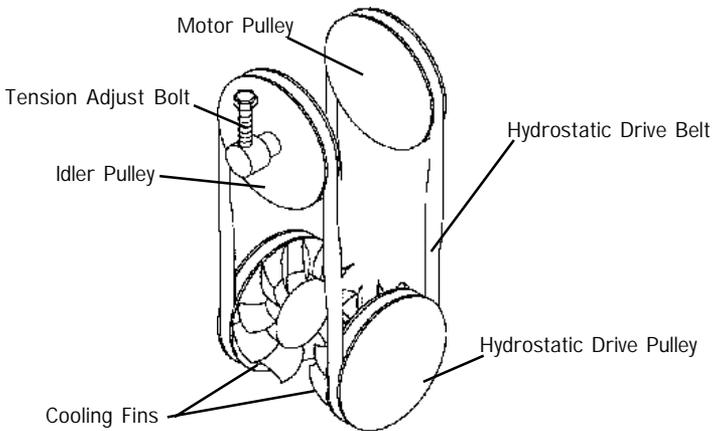
HYDROSTAT DRIVE BELT TENSION ADJUSTMENT:

In normal use the hydrostat drive belt tension should be checked after the first 20 hours of use for normal wear and stretch. It may be adjusted as follows:

1. Loosen the idler pulley locking nut until the idler pulley can be just moved relative to the mounting bracket.
2. Tighten the tension adjust bolt until the belt is tight enough to prevent belt slippage. Belt should deflect approximately 3/8" to 5/8" under moderate pressure. Do not over tighten.

Note: If belt is over-tightened it will often make a "chattering" noise.

3. Retighten the slide locking nut.



4. Retighten the tension adjust bolt 1/4 turn to set the lockwasher and prevent loosening of the tension adjust bolt.

CARE AND MAINTENANCE

STEERING CONTROL ADJUSTMENTS:

To adjust neutral:

1. Remove fender skirts from each side of the machine.
2. Block up the unit so drive wheels are off ground.
3. Start engine and run at fast idle with steering control levers in "out" position. Brake must be disengaged and seat switch activated.
4. Loosen the locknuts tightened against the rod end ball joints in the upper linkage assembly.

Note: One of these is a left hand nut and will have to be turned backwards.

5. Adjust the neutral position by turning the rod in the upper linkage until the wheel stops turning.
6. Retighten the nuts on the upper linkage assembly and check to see that the drive wheel is still not turning.
7. Repeat steps 1-6 for the other side.
8. Shut off engine before removing the blocks.

CARE AND MAINTENANCE

STEERING CONTROL ADJUSTMENTS (continued):

To adjust "IN" position of the steering controls:

1. Remove the two front bolts, lockwashers, and washers which hold the fender cap.
2. Pull the boot from the hole in the fender cap, exposing the cast iron lever.
3. Using a 5/32" Allen wrench, turn the setscrew to adjust the stop.
4. Replace the boot into the hole in the fender cap.
5. Replace the two front bolts, lockwashers and washers.

To align handles:

Sit on the seat and push the control levers full forward and full backward. If the ends do not match, the handles may be adjusted as follows:

1. Locate setscrew stops in the steering control lever base which stop the lever in each direction.

Note: The one at the rear is the stop for forward and the one in the front is the stop for reverse.

2. Adjust setscrew stops so that handles line up together when shifted full forward and full reverse.

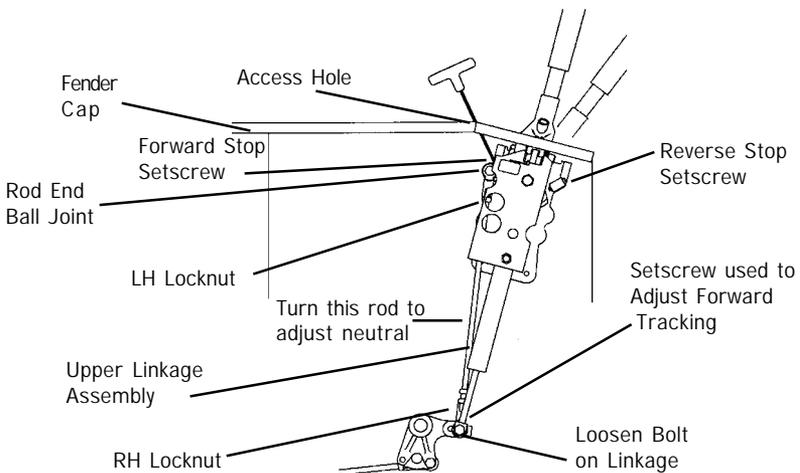
CARE AND MAINTENANCE

STEERING CONTROL ADJUSTMENTS (continued):

Adjusting for Straight Forward Tracking:

In large open area, actuate the control handles into the full forward position. If mower veers in either direction (left or right) some adjustment is necessary.

1. If mower veers to right, right hydrostat needs to be sped up. If mower veers to left, left hydrostat needs to be sped up.
2. Stop machine and shut off engine.
3. Slightly loosen bolt at lower end of upper linkage assembly on side that is slower. Using a 1/8" Allen wrench turn the setscrew 1/4 turn in. It may take several test drives to get mower to track straight forward.
4. Once the tracking is to the operators liking, completely tighten the bolt on the control linkage assembly that was loosened earlier.
5. Recheck to make sure neutral adjust has not been affected.



CARE AND MAINTENANCE

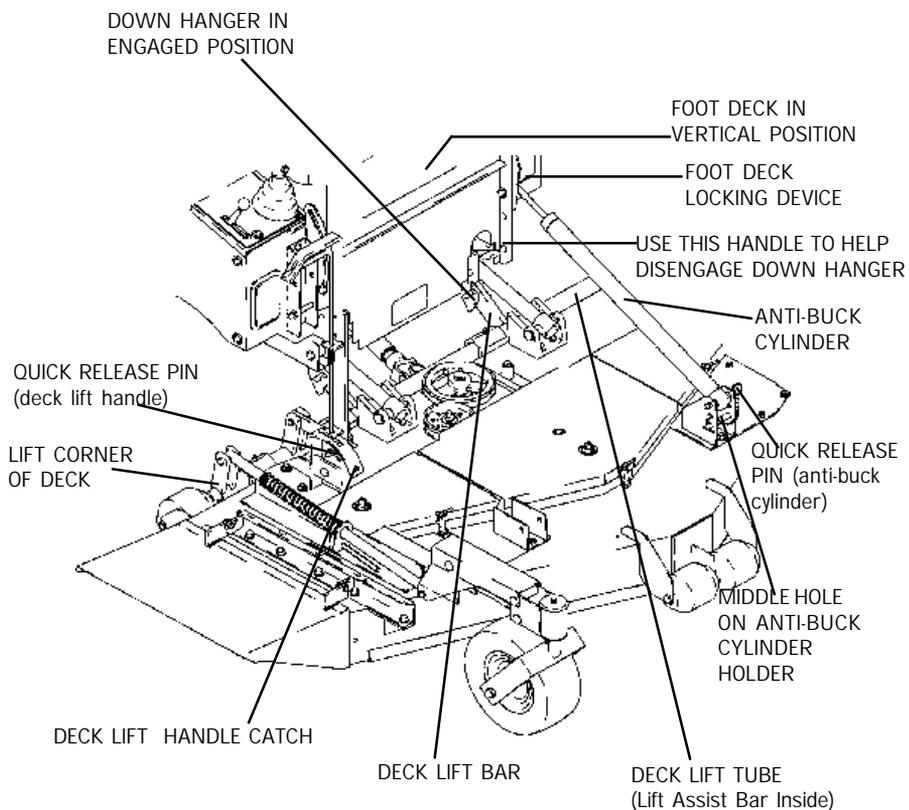
TILTING THE DECK (see diagram-page37)

1. Set the parking brake.
2. Raise the foot deck into vertical position and lock into place.
3. Remove the quick release pin from the anti-buck cylinder at deck end. Lift the cylinder straight up. Use left-hand control lever to hold cylinder in up-right position.
4. Place the deck lift handle in the lowest cutting position.
5. Use lift assist bar, located on left-hand side of deck, inside the deck lift tube.
6. Raise deck lift handle catch, rock handle back and forth until quick release pin pulls free with little effort.
7. Lift up on the front of the deck until deck rotates past 90 degrees. The middle hole on the anti-buck cylinder holder will be in line with the slot on the foot deck locking device. Use the quick release pin to secure the deck in the upright position.

LOWER & REATTACH THE DECK(see diagram-page 37)

1. Rotate the deck back to horizontal position.
2. Stand on front of deck and align deck lift bar with deck lift handle, rock handle back and forth until quick release pin slips through. Note the orientation of the holes in the bar. The first hole is for low cutting 1" to 3", the second hole is for high cutting 3" to 5".
3. Lift the rear corner of the deck until the down hanger engages the push bar. Repeat for other side.
4. Reattach the anti-buck cylinder.
5. Unlatch foot deck locking device and lower the foot deck back to horizontal position.

CARE AND MAINTENANCE

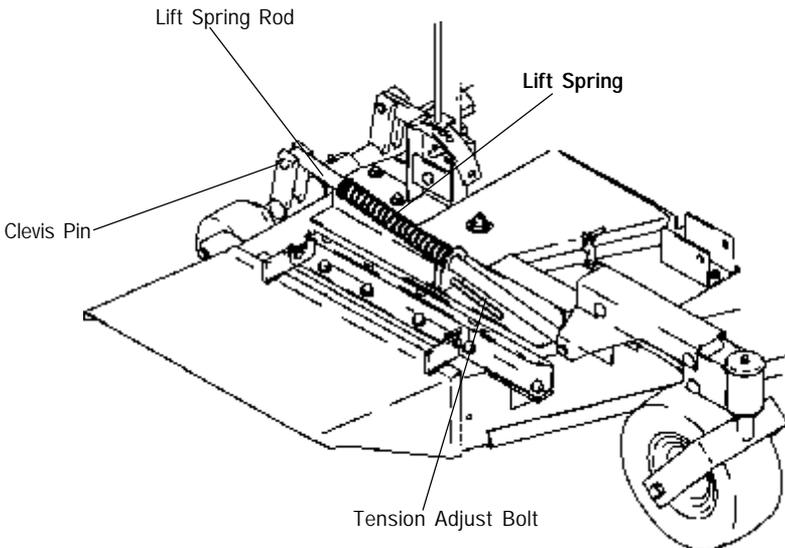


CARE AND MAINTENANCE

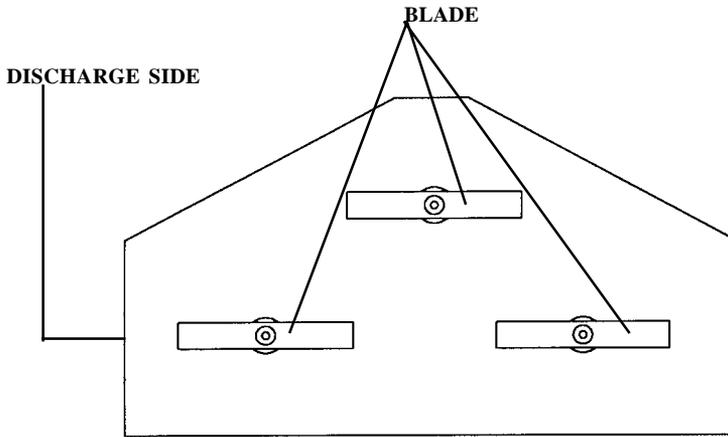
LEVELING THE DECK:

The deck comes from the manufacturer pre-leveled. If the deck does appear to be cutting unlevel follow this procedure.

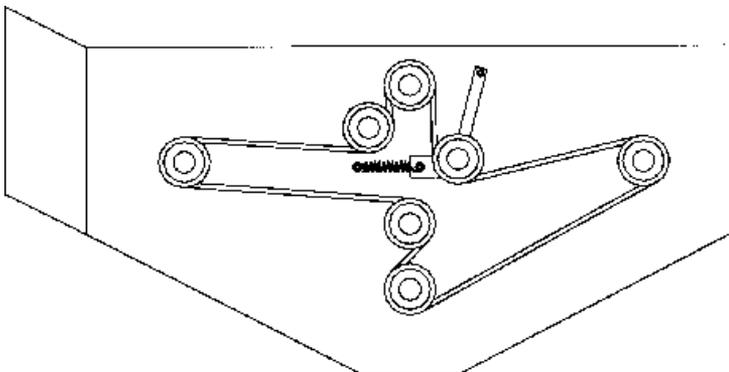
1. Set tire pressure on all of the tires to correct specifications (see page 26).
2. Place machine on a level slab of concrete.
3. Move blades by hand so all the blades are pointed in the same direction (see diagram on page 39). Measure from the blade tip (beveled edge) to the ground, all three blades. If there is more than a $3/16$ " difference from one side to the other, the deck should be leveled.
4. Remove the clevis pin from the rear of the lift spring rod, on the high side. The lift spring rod is two parts-one threaded into the other. Turn the lift spring rod counter-clockwise 2 turns. Reassemble clevis pin and re-measure. Repeat as required to achieve a difference of no more than $3/16$ " from one side to the other.
5. If the deck is level side to side but high or low at the center blade, both lift spring rods must be adjusted equal amounts. Shortening the lift spring rods will bring the center blade up and lengthening the lift spring rods will let the center blade down.



CARE AND MAINTENANCE



DECK SPINDLE BELT DIAGRAM
(TOP VIEW)



TROUBLESHOOTING

1. ENGINE WON'T TURN OVER

Mower blades engaged- -disengage blades
Drive not in neutral- move control levers to neutral "OUT"
Breaker trips- -reset breaker
Dead battery- -charge or replace
Solenoid- -consult dealer
Ignition switch- -consult dealer
Starter- -consult dealer
Parking brake not on- -engage parking brake

2. ENGINE WILL TURN OVER BUT WON'T START

No fuel- refuel and/or clean or replace fuel filters
Over or under choked- -adjust choke
Spark plug not firing- - -check spark plug/condition or reset gap*
Carburetor maladjustment- -reset carburetor adjustment/consult dealer
Ignition switch- -consult dealer for carburetor service

3. HARD TO START ENGINE

Fuel line clogged- -clean fuel line and check fuel filter
Faulty fuel pump- -consult dealer
Over or under choke- -adjust choke
Spark plug wire loose or grounded- -check spark plug wire
Spark plugs faulty /improperly gapped- -check plugs/condition/reset gap*
Electronic ignition defective- -consult dealer
Dirty or maladjusted carburetor- -readjust */consult dealer for service

4. ENGINE STARTS BUT CUTS OUT

Water in fuel- -drain old fuel-replace with new fuel
Clogged fuel line- -check fuel filter
Fuel tank vent plugged- -clean fuel line
Faulty fuel pump- -check vent
Engine dies when control levers moved "IN"- -release parking brake

5. ENGINE KNOCKS

Low oil level- -check and add oil
Ignition timing off- -consult dealer
Fuel octane too low- -drain and replace with higher octane fuel
Over heated engine- -shut off and allow to cool

6. ENGINE IDLES POORLY

Carburetor maladjustment- -consult dealer
Improper spark plug gap- -check and re-gap plug*
Choke stuck on- -check or adjust

*See engine manual for adjustments

TROUBLESHOOTING

7. **ENGINE SOMETIMES SKIPS AT HIGHER SPEED**
Incorrect ignition timing-----consult dealer
Carburetor maladjusted-----readjust carburetor
Faulty spark plugs-----check spark plug or condition and reset gap*
Bouncing off seat safety switch-----slow down on rough terrain
8. **ENGINE OVERHEATED**
Air intake screen or fins clogged-----clean intake screen and fins
Fuel mixture too lean-----consult dealer
Oil level too low or too high-----adjust oil level
Improper ignition timing-----consult dealer
Running engine too slow-----run engine faster
NOTE: Always mow at full throttle setting!
9. **ENGINE BACKFIRES**
Carburetor maladjustment-----consult dealer
10. **ENGINE RUNS BUT MOWER WON'T MOVE FORWARD**
Free wheel levers engaged-----release levers
Drive belt broken or slipping-----replace drive belt
Shift linkage cable disconnected-----reconnect
Transmission shift arm disconnected-----reconnect
Transmission oil low-----add oil
Transmission locks in free wheel position-----put in lock position(see pg.23)
Hydrostat oil filter plugged-----replace filter
Bad transmission-----consult dealer
Gear mating transmission/gearbox disconnected-----consult dealer
Air in transmission-----bleed air
Not enough tension on drive belt-----check belt
11. **MOWER LOSES POWER OR TRANSMISSION OVERHEATS**
Hydrostat transmission oil too low or high-----add oil or drain as needed
Transmission damage-----consult dealer
Transmission blowing oil out cap-----overfilled or water contaminated
12. **ENGINE STALLS WHEN BLADES ARE ENGAGED**
Operator not on seat-----sit on seat
Faulty interlock system-----consult dealer
Bad blade spindle bearing-----consult dealer
Deck drive belt not properly routed-----reroute
Blades blocked by foreign material-----clean under deck

*See engine manual for engine adjustments

STANDARD SERVICE PARTS LIST

MODEL ZTR 6023:

Blades: Lo-Lift P/N 60293 (standard)
Blades: Hi-Lift P/N 60295

Serpentine Belt: P/N 60194 (48")
P/N 61086 (60")

Engine to Hydros: P/N 61101
Clutch to Driveshaft: P/N 60187

Hydrostatic
Transmission Filter: P/N 7252

KOHLER AIR AND OIL FILTER PART NUMBERS:

Refer to engine manufacturers manual for recommendations regarding frequency of service required for engine oil changes and air filter maintenance.

Protect your engine investment, use only original equipment filters.

MODEL ZTR 6023 (23 HP):

Air Filter & Pre-Cleaner Kit	78003
Engine Oil Filter	78006

IMPORTANT:

Some applications, extreme dirt conditons, or the use of a grass catcher may require that the engine used on the Model 6023 be fitted with an OPTIONAL Kohler fresh air filter system. Consult your dealer or a Kohler engine service center for the part numbers required to adpat these components to the engine or for additional information.

OWNER INFORMATION

DIXON INDUSTRIES, INC.
a BLOUNT International Inc. Co.
P.O. Box 1569
Coffeyville, Ks 67337-0945
620-251-2000
FAX 620-251-4117



Date Purchased _____

Mower Model Number _____

Mower Serial Number _____

Purchased From _____

Name

Address



DATE OIL CHANGED:

DATE ENGINE TUNED:



ZTR®Mowers



WARNING:

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

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DIXON INDUSTRIES, INC.
a BLOUNT International Inc. Co.
P.O. Box 1569
Coffeyville, Ks 67337-0945
620-251-2000

6000 Series
Model 6023
Part No. 13090-0601