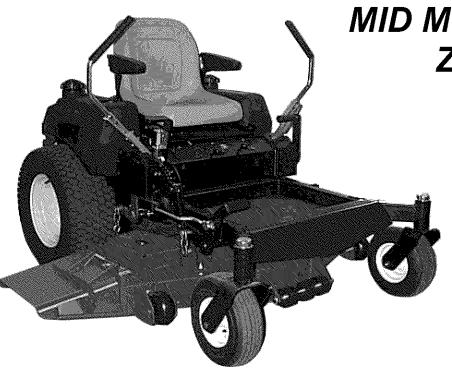
Safety Instructions & Operator's Manual for





MID MOUNT Z-RIDER
ZERO TURNING
HYDRO DRIVE
SERIES 1

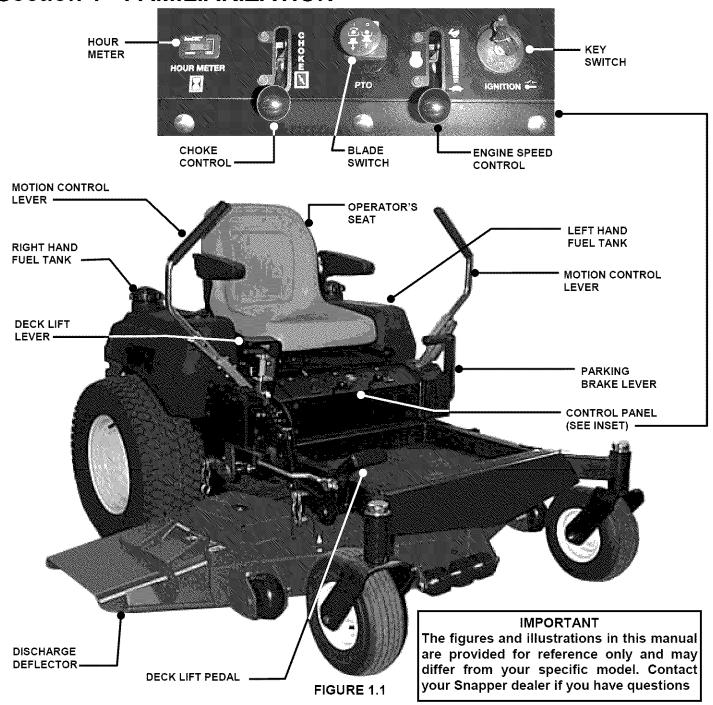
MODELS
NZM19481KWV
NZM21521KWV
NZM25611KWV
NZM27611KH

MODEL NUMBER EXPLANATION							
N	Z	М	19	48	1	KWV]
MODEL DESIGNATION DRIVE SYSTEM TYPE MOWER ORIENTATION ENGINE HP					L		ENGINE TYPE SERIES DESIGNATION MOWER DECK SIZE
POWER UNIT							
N – Model Designation	19.0 – En	e Power	48 – 4	18" Mowe	er Width	1 – Series Designation	
Z – Zero Turning – Hydro Drive	21.0 En	e Power	52 – 5	52" Mowe	er Width	KW – Kawasaki Engine	
M – Mid Mount Mower	25.0 – En	e Power	61 –	61" Mow	KH – Kohler Engine		
	27.0 – En	e Power				V – Over Head Valve	

Thank you for buying a SNAPPER Product! Before operating your machine, read this manual carefully and pay particular attention to the "IMPORTANT SAFETY INSTRUCTIONS" on Pages 2 - 4. Remember that all power equipment can be dangerous if used improperly. Also keep in mind that SAFETY requires careful use in accordance with the operating instructions and common sense!

SNAPPER McDonough, GA., 30253 U.S.A.

Section 1 - FAMILIARIZATION



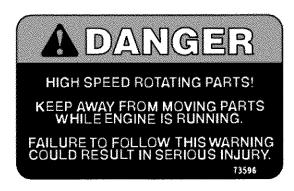
1.1 INTRODUCTION

This manual has been prepared for the operator's of the SNAPPER MID MOUNT Z-RIDER. Its purpose, aside from recommending standard operating procedures and routine service requirements, is to promote SAFETY through the use of accepted operating practices. Read, Understand and Follow the IMPORTANT SAFETY INSTRUCTIONS on Pages 2 thru 4 of this manual and All SAFETY messages on the MID MOUNT Z-RIDER and its attachments before operating. SNAPPER recommends returning the MID MOUNT Z-RIDER to an authorized SNAPPER dealer annually for inspection and addition of any new devices which might upgrade the safety of the mower.

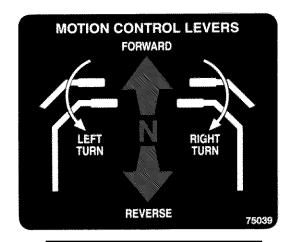
1.2 NOMENCLATURE

The nomenclature information above, Figure 1.1, shows the essential parts of the SNAPPER MID MOUNT Z-RIDER. It is recommended that all operators of this equipment become thoroughly familiar with the controls, components, and operation of this machine before operating. Specific details involving the engine are found in the separate engine owner's manual. Study these manuals before operating and keep both handy for future reference. For the nearest SNAPPER dealer in your area, check the yellow pages under the heading LAWN MOWERS. For engine parts and service, look for the engine manufacturer's dealers under the heading, ENGINES - gasoline.

Section 2 – SAFETY MESSAGES AND SYMBOLS



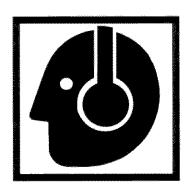
DANGER! ROTATING PARTS KEEP AWAY FROM MOVING PARTS



MOTION CONTROL LEVER OPERATION



PARKING BRAKE LEVER OPERATION



WEAR HEARING PROTECTION

MAKE SURE OPERATOR IS SEATED PROPERLY. * PLACE MOTION CONTROL LEVERS IN CENTER/NEUTRAL POSITION. . PULL UP ON BRAKE LEVER TO SET BRAKE. • PUSH BLADE SWITCH DOWN TO MAKE SURE BLADE IS DISENGAGED. SET CHOKE AND THROTTLE.
 TURN KEY TO START ENGINE.

ADJUST CHOKE AND THROTTLE. • PULL BLADE SWITCH UP TO ENGAGE BLADE. • PUSH PARKING BRAKE LEVER DOWN TO RELEASE BRAKE. • MOVE MOTION CONTROL LEVERS IN THE DIRECTION OF TRAVEL REQUIRED. . INCREASE / DECREASE SPEED WITH AMOUNT OF MOTION CONTROL LEVERS TRAVEL FROM CENTER / NEUTRAL POSITION.

MOVE MOTION CONTROL LEVERS TO CENTER / NEUTRAL POSITION. . PUSH BLADE SWITCH DOWN TO DISENGAGE BLADE. . PULL UP ON BRAKE LEVER TO SET BRAKE. . TURN KEY TO OFF POSITION AND REMOVE. . MAKE SURE ALL MOVEMENT HAS STOPPED BEFORE DISMOUNTING.

À WARNING

TO AVOID SERIOUS INJURY OR DEATH

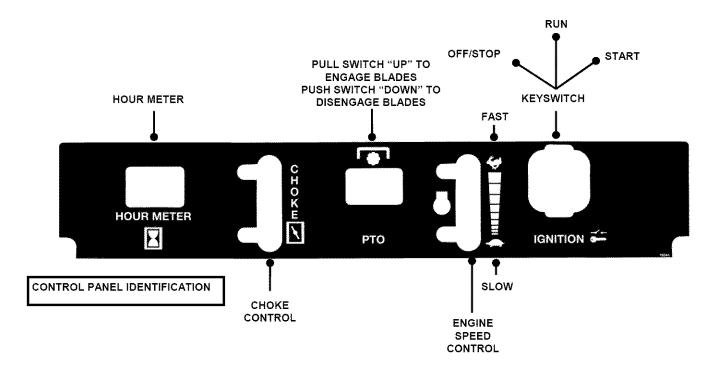
- READ OPERATOR'S MANUAL AND OTHER INSTRUCTIONAL MATERIALS PROVIDED.
- KNOW LOCATION AND FUNCTION OF ALL CONTROLS.

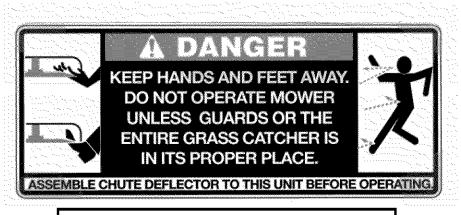
 THIS MACHINE IS DESIGNED FOR PROFESSIONAL USERS. DO NOT OPERATE UNTIL,
- THOROUGHLY TRAINED AND FAMILIAR WITH ALL CONTROLS AND PROPER USE OF THIS MACHINE. NEVER START BLADES UNLESS PROPERLY SEATED ON MACHINE
- KEEP SAFETY DEVICES (GUARDS, SHELDS AND SWITCHES) IN PLACE A REMOVE OBJECTS THAT COULD BE THROWN BY THE BLADES.
- DO NOT MOVE MOTION CONTROL LEVERS RAPIDLY. AVOID SUDDEN TURNS.
- DO NOT OPERATE BLADES IN REVERSE.
- LOOK DOWN AND BEHIND BEFORE AND DURING REVERSE MOVEMENT.
- DO NOT MOW IN ANY AREA WHERE STABILITY AND TRACTION IS IN DOUBT. DO NOT MOW ON SHOPES STPEPER THAN 15"
- REDUCE SPEED ON SLOPES. GO FORWARD DOWN SLOPES. GO REVERSE UP
- SLOPES, NEVER TRAVEL ACROSS SLOPES.

 AVOID UPHILL STARTS: IF MACHINE STOPS GOING UPHILL, STOP BLADES AND BACK DOWN SLOWLY.
- DO NOT MOW WHEN CHILDREN OR OTHERS ARE AROUND. NEVER CARRY CHILDREN
- DURING OPERATION EVEN WITH BLADES OFF.
- BE SURE ALL MOVING PARTS ARE STATIONARY BEFORE PLACING HANDS AND FEFT NEAR BLADES OR SERVICING MACHINE.

WARNING! AVOID SERIOUS INJURY OR DEATH STARTING, OPERATION & STOPPING OF MACHINE

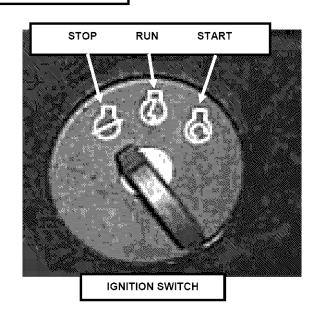
Section 2 – SAFETY MESSAGES AND SYMBOLS



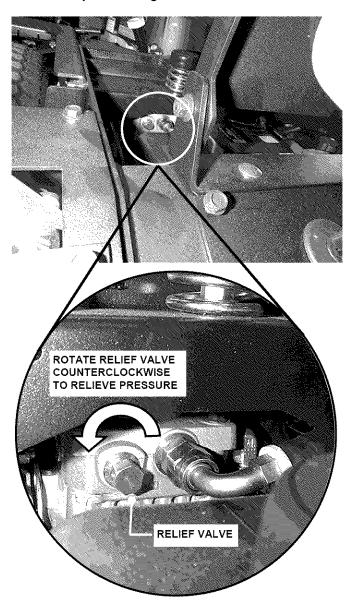


DANGER! ROTATING BLADES
KEEP CHILDREN AND OTHERS OUT OF MOWING AREA





ROLL RELEASE: To roll the machine without the engine running, pressure within the hydraulic pumps must be released. There is a hydraulic pressure relief valve on the upper side of each pump that is used to release the pressure. Use a wrench to rotate both relief valves counter clockwise two full turns to open. After rolling machine, both relief valves must be rotated clockwise to close valves and tighten securely before operating machine. Machine will not move if relief valves are open. See Figure 3.4.



⚠ WARNING



DO NOT disengage the hydro transmission and coast down slopes. DO NOT use Roll Release Control to disengage the hydro transmission unless machine motion can be controlled and engine is off.

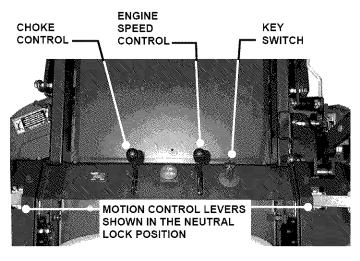
3.2 STARTING & STOPPING – ENGINE, BLADES, PARKING BRAKE

This machine is equipped with dual hydrostatic wheel drive transmissions. Each hydro pump is controlled by a separate motion control lever. The left lever controls the left wheel drive hydro pump and the right lever controls the right wheel drive hydro pump. These levers control the direction of motion, Forward & Reverse, and the speed of motion. Move both levers forward to propel the machine forward. Move both levers rearward to propel the machine in reverse. The speed of motion is continuously variable from neutral (zero) to the maximum. Moving the levers farther from the neutral position will cause the speed of motion to increase. To turn, move the lever on the side to which you want to turn slightly rearward of the other lever. Move levers slowly and carefully. DO NOT make sudden changes in speed or direction. Always slow machine motion before turning. To stop the motion of the machine, bring both motion control levers to the neutral position. Engage parking brake.

3.2.1. STARTING ENGINE

When the ignition key is turned the engine will not start or turn over unless, the blade switch is pushed in to the "OFF" position and the motion control levers are in the neutral lock position. Always engage parking brake before starting engine.

- 1. Complete pre-start checklist.
- 2. Sit in operator's seat.
- **3.** Push blade switch in to "OFF", blades disengaged position and engage parking brake. See Figure 3.2.
- **4.** Move choke control forward to choke position to start a cold engine. See Figure 3.5.
- **5.** Move engine speed control to the Rabbit "FAST" position. See Figure 3.5.
- **6.** Turn key to the start position until engine starts. See Figure 3.6.



SHOWN FROM OPERATOR'S VIEW POINT

FIGURE 3.5

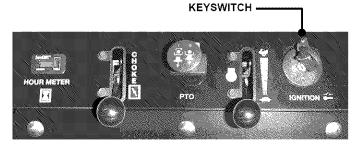
3.2.1. STARTING ENGINE

NOTE: If after 5 seconds of cranking the engine does not start, release the key. Attempt starting again after waiting for approximately 20 seconds.

7. After engine starts, move the choke control to the "OFF" or no choke position. Allow a brief warm-up until engine runs smooth.

3.2.2. STOPPING ENGINE

1. Stop engine by turning key to "STOP" position. Move engine speed to the Turtle "SLOW" position and turn key to "STOP". See Figure 3.6.



SHOWN FROM OPERATOR'S VIEW POINT

FIGURE 3.6

WARNING



DO NOT operate blades in reverse. STOP blades. LOOK and SEE behind and down for children, pets, and hazards before and while backing.

3.2.3. STARTING MOWER BLADES

- **1.** Start engine and set engine speed control to the Rabbit "FAST" position. See Figure 3.5.
- **2.** Pull the Blade Switch up to the "ON" position to engage or turn "ON" the mower blades. See Figure 3.2.

3.2.4. STOPPING MOWER BLADES

- **1.** Push Blade Switch down to "OFF" position to disengage or turn "OFF" the blades.
- **2.** Move engine speed control to the Turtle "SLOW" position. Turn key to "STOP" position.



WARNING



Once blades are disengaged, they should come to a complete stop in 7 seconds. If the blades continue to rotate after 7 seconds, the electric clutch should be checked. Adjustment or replacement of electric clutch may be necessary. Return the machine to an authorized Snapper dealer for replacement. DO NOT CONTINUE to operate mower if blades fail to stop in 7 seconds.

3.2.5. PARKING BRAKE

1. Engage parking brake by pulling the parking brake lever back to the engaged position. See Figure 3.7.

NOTE: Engaging parking brake prior to placing motion control levers in the neutral lock position will cause engine to die. See Figure. 3.7.

2. Release parking brake by pushing parking brake lever forward to the released position. See Figure 3.8.

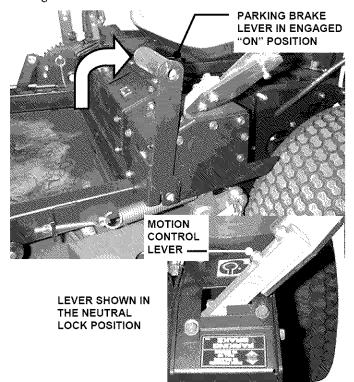


FIGURE 3.7

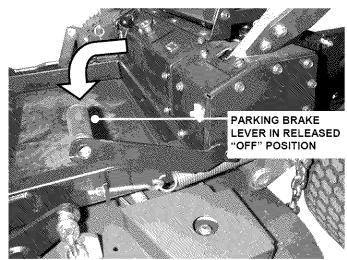


FIGURE 3.8



WARNING



DO NOT park the machine on slopes. DO NOT leave machine with engine running. Stop engine. Stop blades. Engage parking brake. Remove key.

3.3 CUTTING HEIGHT ADJUSTMENT

- 1. Adjust cutting height, as desired, to any position, using deck lift lever. The release latch should be pulled up when lowering the deck. When raising the deck, the release latch does not have to be pulled up. IMPORTANT: There is a foot assist pedal located to the right front side of the footrest. Always use this assist pedal to raise or lower the deck to the desired cutting height. See Figure 3.9 & 3.10.
- **2.** If a specific deck height is desired each time the machine is used, insert the stop pin to desired cutting height. See Figure 3.11.

NOTE: The engine does not have to be running to adjust cutting height.

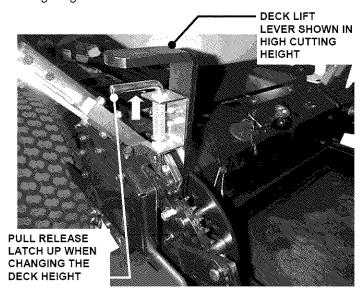
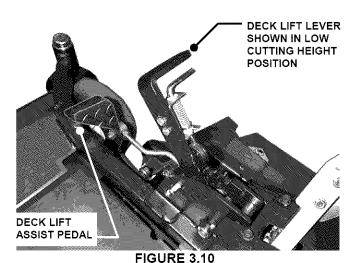


FIGURE 3.9





WARNING



DO NOT make turns at high speed. Slow machine motion. Move motion control lever gently and with caution. DO NOT make sudden changes in speed or direction.

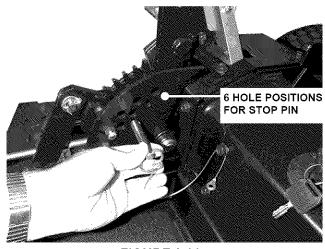


FIGURE 3.11

3.4 OPERATION- MOTION CONTROLS 3.4.1. DRIVING MACHINE

- 1. Start engine. Release parking brake.
- **2.** Move motion control levers gently and with caution in desired direction. See Figure 3.12.

FORWARD - Move both control levers forward.

REVERSE - Move both control levers rearward.

LEFT TURN - Move left control rearward or move right control lever forward.

RIGHT TURN - Move left control forward or move right control lever rearward.

ZERO RADIUS TURN - Move one control lever forward and move the other control lever rearward simultaneously.

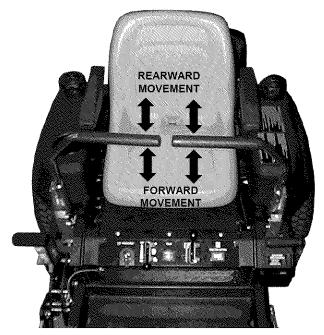


FIGURE 3.12

3.4.2. STOPPING MACHINE

1. Return motion control lever to the neutral position & the neutral lock position.

IMPORTANT: Operator must use hand assistance to bring both motion control levers to the neutral position & the neutral lock position.

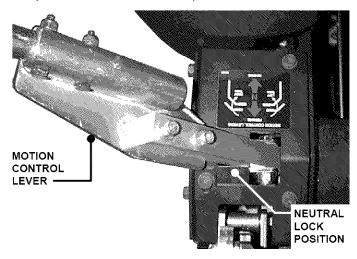


FIGURE 3.13

- 2. Engage parking brake.
- **3.** Push Blade Switch down to the "OFF" position to disengage or turn "OFF" the blades.
- **4.** Stop engine. Move engine speed control to turtle "SLOW" position. Turn key to stop position.
- 5. Remove key.

\mathbf{A}

WARNING



DO NOT park the machine on slopes. DO NOT leave machine with engine running. Stop engine. Stop blades. Engage parking brake. Remove key.

3.5 SAFETY INTERLOCK SYSTEM CHECKS

This machine is equipped with an electrical safety interlock system that is provided for the safety of the operator and others. All safety devices must be in place and functioning properly before operating the machine. Perform the following interlock system checks periodically during the operating season. Contact your authorized Snapper dealer if you have questions.

A

WARNING



DO NOT operate machine if any safety interlock or safety device is not in place and functioning properly. DO NOT attempt to defeat, modify or remove any safety device.

ENGINE MUST NOT START IF:

- 1. Motion Control Lever(s) are not in the neutral lock position OR,
- **2.** Parking Brake disengaged and Operator not seated in the Operator's Seat OR,
- **3.** Blade Switch in the "ON" blades engaged position.

ENGINE SHOULD START IF:

- Blade Switch in the "OFF" blades disengaged position AND,
- 2. Motion Control Levers are both in the neutral lock position AND.
- Operator properly seated in the Operator's Seat OR.
- 4. Parking Brake engaged.

NOTE: The engine can be started with the parking brake disengaged only if conditions in 1, 2 and 3 have been met.

ENGINE MUST BEGIN TO STOP IF:

- Motion Control Levers are moved from the neutral lock position with Parking Brake engaged OR,
- **2.** Operator rises off of seat with Blade Switch in "ON" blades engaged position OR,
- **3.** Operator rises off of seat with Parking Brake disengaged.

IMPORTANT: Engine and blades will continue to run if Operator becomes reseated prior to engine coming to a complete stop. After coming to a complete stop, the blade switch must be moved to the "OFF" position before engine can be restarted. Engine and blades must come to a complete stop within 7 seconds after the operator rises off the seat or the blade switch is moved to the "OFF" position.

Section 4 - MAINTENANCE

4.3.3. RIDING MOWER - LUBRICATION

1. Front Wheel Bearings

Lubricate with Kendall NLGI No. 2 lithium grease or equivalent, from a grease gun. See Figure 4.5.

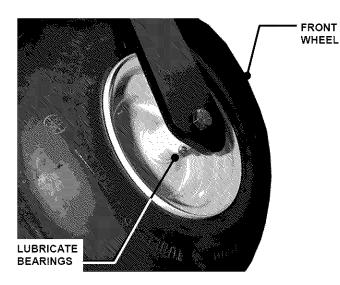


FIGURE 4.5

2. Hydro Pumps

Check the level of the fluid in both of the fluid reservoirs. Wipe away all dirt and debris from around reservoir cap before removing. Oil must remain absolutely clean! Check with machine on a level surface with engine "OFF". Fill reservoir as needed to bring level up. The reservoir is properly filled when the fluid level is 1½" below the top of the filler neck. **DO NOT OVER FILL.** Use clean, fresh premium automotive oil having a viscosity equivalent to SAE 20W50 API SL. The fluid should be chemically stable, incorporating rust and oxidation inhibitors. Make sure funnels, pouring spouts and oil can are completely clean. Reinstall reservoir cap. See Figure 4.6.

3. Other Lubrication Points

Lubricate machine caster wheel shafts, traction idler arm and mower deck idler arms with Kendall NLGI No. 2 lithium grease or equivalent, from a grease gun. See Figure 4.7.

4.4 BEFORE OPERATING MACHINE

- **1.** Clean all dirt and debris from around the two hydraulic fluid reservoirs. Especially around the top and cap area.
- **2.** Clean all dirt and debris from the cooling fins on the engine and from both hydraulic pumps.

4.5 ANNUALLY (END OF EACH SEASON)

Perform all maintenance as described in Section "AFTER EVERY 25 OPERATING HOURS". Refer to Section "Service Schedule".

4.5.1. **ENGINE**

Service engine according to engine owner's manual.

HYDRAULIC FLUID RESERVOIRS

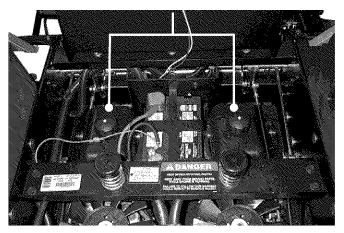
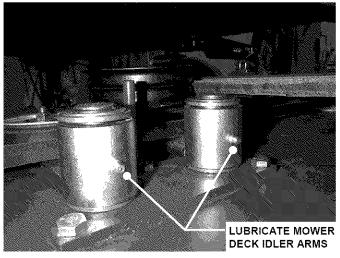


FIGURE 4.6



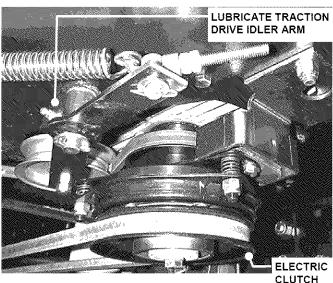


FIGURE 4.7

(Continued on next Page)

Section 4 - MAINTENANCE

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WARNING

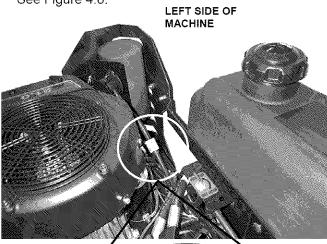


Allow engine to cool for at least ten minutes before performing service or maintenance. DO NOT smoke near fuel components when performing service or maintenance. DO NOT perform service and maintenance near an open flame. Wipe off any spilled fuel before starting engine. DO NOT run engine indoors.

4.5 ANNUALLY (END OF EACH SEASON) (Continued from previous Page) 4.5.2. FUEL FILTER

Service fuel filter as instructed below. Turn key to "OFF" position. Engine MUST be stopped and MUST be cold before removing filter. Clamp fuel line to prevent fuel spillage or perform filter change when fuel tank and fuel line are empty.

- 1. Remove fuel line clamps from fuel filter.
- 2. Remove fuel lines from filter. Discard filter.
- **3.** Install new fuel filter. IMPORTANT: Some fuel filters are fuel flow directional. Check for arrow that shows fuel flow direction. Reinstall fuel line clamps. See Figure 4.8.



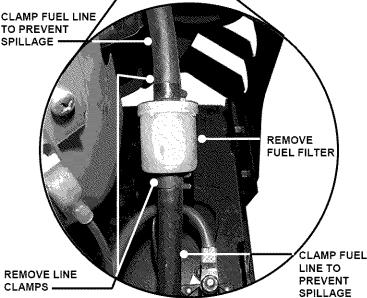
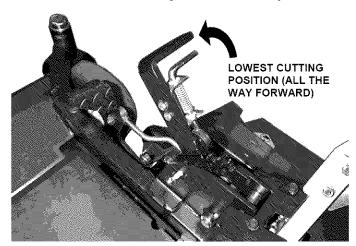


FIGURE 4.8

4.6 DECK REMOVAL

Move power unit/mower deck to an area where the mower deck is to be disconnected. Turn engine "OFF" and remove key from switch. Remove spark plug wire(s) and secure away from spark plug(s). Move motion control levers to the neutral position. Engage parking brake.

- **1.** Move deck lift lever and set the mower deck to the highest cutting position. See Figure 4.9.
- **2. IMPORTANT STORED ENERGY.** Relieve tension on deck lift assist spring by backing off nut on eyebolt. Failure to relive tension could result in personal injury. See Figure 4.9.
- **3.** Place a wooden block under the front and rear edge of the mower deck.
- **4.** Move deck lift lever and set the mower deck to a lower cutting position until deck rests on wooden blocks. Position the deck to where there is no tension on the deck hanger chains. See Figure 4.9.



POSITION DECK LIFT LEVER IN HIGHEST CUTTING POSITION. PLACE WOODEN BLOCKS UNDER FRONT AND REAR OF DECK, LOWER DECK ONTO BLOCKS

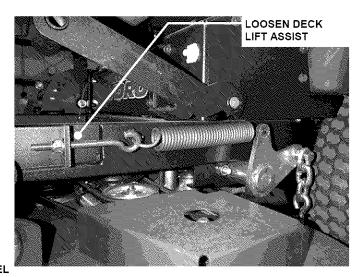


FIGURE 4.9

(Continued On Next Page)

Section 5 - ADJUSTMENTS & REPAIR



WARNING



DO NOT attempt any maintenance, adjustments or service with engine running. STOP engine. STOP blades. Set brake. Remove key. Remove spark plug wires and secure away from spark plugs. Engine and components are HOT. Avoid serious burns, allow sufficient time for all parts to cool.

5.3 TRACTION BELT TENSION

The traction drive belt tension does not require adjustment. If the belt is slipping, it will have to be replaced.

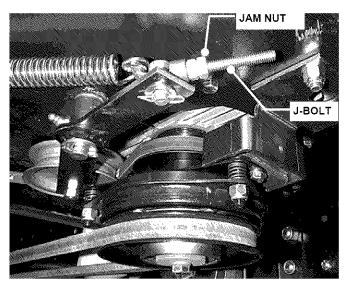
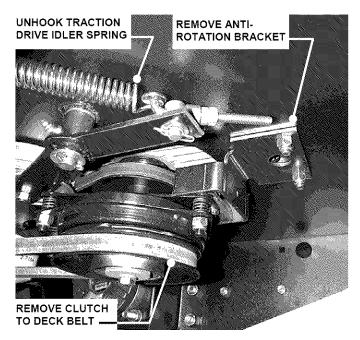


FIGURE 5.9

5.4 TRACTION BELT REPLACEMENT

- 1. Remove clutch to deck belt. See Figure 5.10
- **2.** Loosen jam nut on J-Bolt and turn both nuts out to the end of J-Bolt, reducing spring tension. Unhook traction idler spring from bolt in frame. See Figure 5.9
- **3.** Remove anti-rotation bracket. See Figure 5.10
- **4.** Disconnect the electric clutch from main wire harness.
- **5.** Remove traction belt from around engine pulley and hydro pumps.
- **6.** Install new belt and route around engine pulley and hydro pump pulleys.
- 7. Reconnect electric clutch to main wire harness.
- 8. Reinstall anti-rotation bracket and tighten nuts securely.
- **9.** Reattach traction idler spring. Run both nuts all the way to the end of the threads on the J-Bolt. Tighten jam nut securely. See Figure 5.10.
- **10.** Reinstall electric clutch to deck belt onto electric clutch.



5.5 BLADE BRAKE/ELECTRIC CLUTCH ADJUSTMENT

The blade switch engages the electric clutch when pulled out to the "ON" position. When the blade switch is in the "ON" position the cutting blade(s) are engaged. The blade switch disengages the electric clutch when the blade switch is pushed in to the "OFF" position. When the blade switch is in the "OFF" position the cutting blade(s) are disengaged. The electric clutch is adjustable. The blades should stop rotation in 7 seconds or less. If the electric clutch fails to stop the blades rotation in 7 seconds, adjustment is necessary.

- 1. Insert a feeler gauge into the three slots on the electric clutch.
- **2.** Check gap through all three slots in the side of the clutch. The gap should be set at .015.
- **3.** If gap is incorrect rotate nuts in or out to achieve the correct gap. See Figure 5.11.

NOTE: Electric Clutch is shown removed from the machine. Removal is not necessary for adjustment.

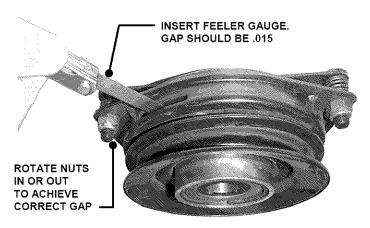


FIGURE 5.11

Section 5 - ADJUSTMENTS & REPAIR



WARNING



Shield the positive terminal with terminal cover located on battery harness. This prevents metal from touching the positive terminal, which could cause sparks. Cables must be connected to battery terminals in the proper position. RED (Positive) cable must go to the (+) terminal. BLACK (Negative) cable must go to the (-) terminal. If battery is removed, DO NOT operate engine without insulating Positive + battery cable terminal with electrical tape, or sparking from the battery cables can result.

5.10 BATTERY

5.10.1.BATTERY REMOVAL

- 1. Remove battery retainer. See Figure 5.17.
- 2. Slide terminal cover away from positive terminal.
- **3.** Observe and note cable positions on battery. Disconnect cables from battery terminals, disconnecting BLACK (Negative) cable first and RED (Positive) last. Retain mounting bolts and nuts. See Figure 5.17.

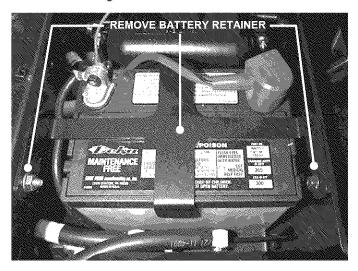


FIGURE 5.17

5.10.2. BATTERY INSTALLATION

- 1. Position battery into battery compartment.
- **2.** Connect cables to battery terminals. Connect RED (Positive) cable first. Connect BLACK (Negative) cable last. See Figure 5.18.
- **3.** Reinstall battery retainer and positive terminal cover. See Figure 5.17.

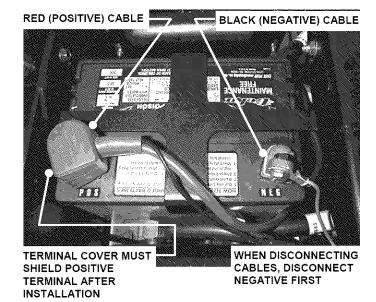


FIGURE 5.18

5.10.3. BATTERY SERVICE

- Remove battery.
- **2.** Place battery in a well-ventilated area on a level surface.
- **3.** Using distilled water, refill cells as required to bring the fluid to the proper level. Note: if your machine is equipped with a maintenance free battery, water will not be required.
- **4.** With cell caps removed, connect battery charger to battery terminals. RED to positive (+) terminal and BLACK to negative (-) terminal.
- **5.** Slow charge battery at 1 amp for 10 hours. An alternative fast charge should be no more than 2.5 amps for four hours.
- **6.** If battery will not accept charge or is partially charged after 10 hours of charging at 1 amp, replace with new battery.



WARNING



The electrolyte (acid) produces a highly explosive gas. Keep all sparks, flame and fire away from area when charging battery or when handling electrolyte or battery. Electrolyte (acid) is a highly corrosive liquid. Wear eye protection. Wash affected areas immediately after having eye or skin contact with electrolyte (acid). Battery acid is corrosive. Rinse empty acid containers with water and mutilate before discarding. If acid is spilled on battery, bench, or clothing, etc., Flush with clear water and neutralize with baking soda.

Safety Instructions & Operator's Manual for



MID MOUNT Z-RIDER ZERO TURNING HYDRO DRIVE SERIES 1

IMPORTANT

Snapper products are built using engines that meet or exceed all applicable emissions requirements on the date manufactured. The labels on those engines contain very important emissions information and critical safety warnings. Read, Understand, and Follow all warnings and instructions in this manual, the engine manual, and on the machine, engine and attachments. If you have any questions about your Snapper product, contact your local authorized Snapper dealer or contact Snapper Customer Service at Snapper, McDonough, GA. 30253. Phone: (1-800-935-2967).



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.



WARNING

ENGINE EXHAUST, SOME OF ITS CONSTITUENTS, AND CERTAIN VEHICLE COMPONENTS CONTAIN OR EMIT CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR OTHER REPRODUCTIVE HARM.

SNAPPER McDonough, GA., 30253 U.S.A.

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MANUAL No. 7-1762 (I.R. 11/25/03)