

OPERATOR'S MANUAL and DEALER SET-UP for SNAPPER 73" MOWER for OUT FRONT Z-RIDER

INTRODUCTION: These instructions cover set-up of the Snapper 73" Mower for the Out Front Z-Rider. The linkage on this mower has been designed to allow the use of the electric actuator on the deck to assist in attaching the mower to the power unit. Follow and complete each step carefully.

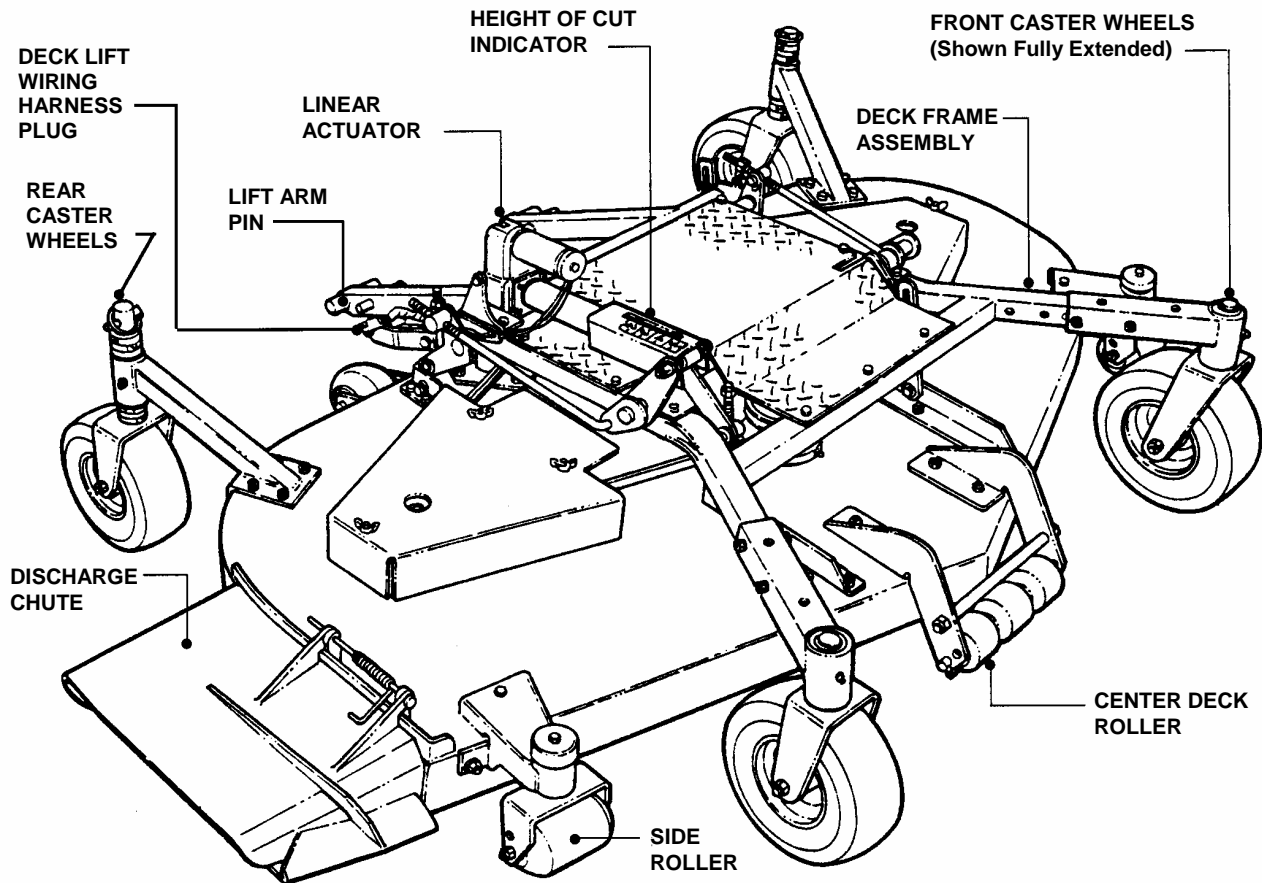


FIGURE 1 - NOMENCLATURE

STEP 1: Remove Mower Unit and Components from the carton(s).

STEP 2: Adjust Rear Casters to lowest position by removing Lynch Pins and placing Spacers on bottom side of Tube. See Figure 2.

STEP 3: Remove the nuts and bolts from the Front Caster Wheel Support Arms. See Figure 3.

STEP 4: Extend the Front Caster Wheels out until they are aligned with the last set of holes. Reinstall nuts and bolts. See Figure 3.

STEP 5: Check pin location at the lower end of the Deck Stabilizer Channels. It should be in the middle hole of the bracket. See Figure 4.

STEP 6: Remove contents of hardware bag which includes (1) #9 Woodruff Key and (2) 3/8"-16 x 3/8" Set Screws. Place Woodruff Key onto Gear Box Shaft on mower deck. Slide Power Transfer Shaft over Gear Box Shaft and make sure Woodruff Key remains in its position. See Figure 5.

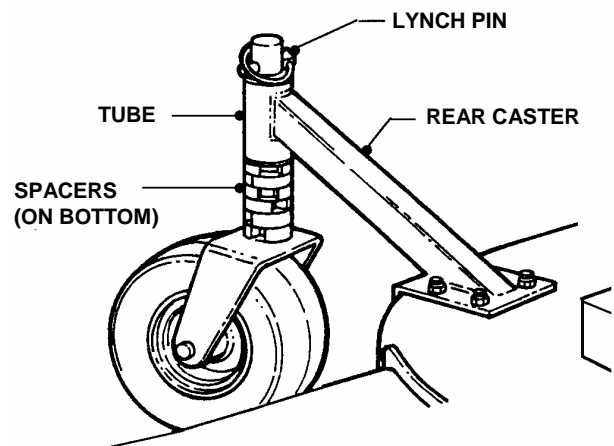


FIGURE 2



IMPORTANT SAFETY INSTRUCTIONS



WARNING: This powerful cutting machine is capable of amputating hands and feet and can throw objects that can cause injury and damage! Failure to comply with the following SAFETY instructions could result in serious injury or death to the operator or other persons. The owner of the machine must understand these instructions and must allow only persons who understand these instructions to operate machine. Each person operating the machine must be of sound mind and body and must not be under the influence of any substance, which might impair vision, dexterity or judgment. If you have any questions pertaining to your machine which your dealer cannot answer to your satisfaction, call or write the Customer Service Department at SNAPPER, McDonough, Georgia 30253. Phone: (1-800-935-2967).

PROTECTION FOR 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.

1. **KEEP** children out of the mowing area and under the watchful care of a responsible adult.
2. **DO NOT** allow children in yard when machine is operated (even with the blades OFF).
3. **DO NOT** allow children or others to ride on machine or on attachments (even with the blade OFF). They may fall and be seriously injured.
4. **DO NOT** allow pre-teenage children to operate machine. Local regulations may restrict the age of the operator.
5. **ALLOW** only adults or responsible teenagers with mature judgment under close adult supervision to operate machine.
6. **DO NOT** operate blades in reverse. **STOP BLADES. LOOK and SEE** behind and down for children, pets and hazards before and while backing.
7. **USE EXTRA CARE** when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

PROTECTION AGAINST TIPOVERS

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 the slope, **DO NOT** mow it. Use extra care with grass catchers or other attachments; these and turf conditions affect the handling and the stability of the machine.

1. **DO NOT** operate machine on slopes exceeding 15 degrees (27% grade).
2. Exercise **EXTREME CAUTION** on slopes above 10 degrees (18% grade). Turn blades OFF when traveling uphill. Use a slow speed and avoid sudden or sharp turns.
3. **DO NOT** operate machine back and forth across face of slopes. Operate up and down. Practice on slopes with blades off.
4. **AVOID** uphill starts. If machine stops going uphill or tires lose traction, turn blades OFF and back slowly down the slope.

PROTECTION AGAINST TIPOVERS

(Continued From Previous Column)

5. **STAY ALERT** for holes and other hidden hazards. Tall grass can hide obstacles. Keep away from ditches, washouts, culverts, fences and protruding objects.
6. **DO NOT** operate machine near drop offs, ditches, embankments, washouts, culverts, fences and protruding objects. **KEEP A SAFE DISTANCE** (at least 3 feet) away from edge of ditches and other drop offs. The machine could turn over if an edge caves in.
7. Always begin forward motion slowly and with caution.
8. Use weights or a weighted load carrier in accordance with instructions supplied with a grass catcher. **DO NOT** operate machine on slopes exceeding 10 degrees (18% grade) when equipped with grass catcher.
9. **DO NOT** put your foot on the ground to try to stabilize the machine.
10. **DO NOT** operate machine on wet grass. Reduced traction could cause sliding.
11. **DO NOT** operate machine under any condition where traction, steering or stability is doubtful.
12. Operator Protective Structures are available for this machine through your local SNAPPER dealer.

PREPARATION

1. Read, understand and follow instructions and warnings in this manual and on the machine, engine and attachments. Know the controls, the safety signs and the proper use of the machine before starting. If the operators or mechanics cannot read English, it is the owner's responsibility to explain this material to them.
2. Only mature, responsible persons shall operate or service the machine and only after proper instruction and training. The owner is responsible for training the operators. Further, the owner/operator can prevent and/or is responsible for accidents or injuries occurring to themselves, other people or property.
3. Data indicates that operators age 60 and above, are involved in a large percentage of mower-related injuries. These operators should evaluate their ability to operate the mower safely enough to protect themselves and others from serious injury.



IMPORTANT SAFETY INSTRUCTIONS



PREPARATION

(Continued From Previous Page)

4. Handle fuel with extra care. Fuels are flammable and vapors are explosive. Use only an approved fuel container. **DO NOT** remove fuel cap or add fuel with engine running. Add or drain fuel outdoors only with engine stopped and cool. Clean spilled fuel from machine. **DO NOT** smoke.
5. Practice operation of machine with **BLADES OFF** to learn controls and develop skills.
6. Check the area to be mowed and remove all objects such as toys, wire, rocks, limbs and other objects that could cause injury if thrown by blades or interfere with mowing.
7. Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by SNAPPER.
8. Keep people and pets out of mowing area. Immediately, **STOP** blades, **STOP** engine, and **STOP** machine if anyone enters the area.
9. **DO NOT** operate machine unless all shields, deflectors, switches, blade controls and other safety devices are in place and functioning properly.
10. Make sure all safety decals are clearly legible. Replace if damaged.
11. Protect yourself when mowing and wear appropriate clothing including safety glasses, long pants, ear protection, hardhat and substantial footwear with good traction. Long hair, loose clothing or jewelry may get tangled in moving parts.
12. Know how to **STOP** blades and engine quickly in preparation for emergencies.
13. Use extra care when loading or unloading the machine into a trailer or truck.
14. Check grass catcher components frequently for signs of wear or deterioration and replace as needed to prevent injury from thrown objects going through weak or worn spots.

OPERATION

1. Mount and dismount machine from left side.
2. Start engine from operator's seat. Make sure blades are **OFF** and parking brake is set. Use seat belts if provided.
3. **DO NOT** leave machine with engine running. Stop engine. Stop blades. Set brake. Remove key.
4. **DO NOT** operate machine unless properly seated with feet on foot rests or pedal(s).
5. **DO NOT** operate machine while under the influence of alcohol or drugs.

OPERATION

(Continued From Previous Column)

6. **STOP MACHINE** on level ground, lower deck, engage parking brake and make sure engine and blades have stopped before removing grass catcher or unclogging mower to prevent injury to hands or feet.
7. Blades must be **OFF** except when cutting grass. Set blades in highest position when mowing over rough ground.
8. Keep hands and feet away from rotating blades underneath deck. **DO NOT** place foot on ground while **BLADES** are **ON** or machine is in motion.
9. **DO NOT** operate machine without entire grass catcher or guards in place. **DO NOT** point discharge at people, passing cars, windows or doors.
10. Slow down before turning.
11. Watch out for traffic when near or crossing roadways.
12. **STOP** engine immediately after striking an object or if an abnormal vibration occurs. Remove key. Remove and disconnect the sparkplug wire. Make necessary repairs before resuming operation.
13. Mow only in daylight or with good artificial light.
14. Move motion control levers **SLOWLY** to maintain control during speed and directional changes.
15. Exercise **CAUTION** when pulling loads. **DO NOT** pull loads greater than 300 pounds. Avoid jackknifing. **DO NOT** turn sharply.
16. **DO NOT** operate engine in enclosed areas. Engine exhaust gases contain carbon monoxide, an odorless and deadly poison.

MAINTENANCE

1. **DO NOT** store machine or fuel container inside where fumes may reach an open flame, spark or pilot light such as in a water heater, furnace, clothes dryer or other gas appliance. Allow engine to cool before storing machine in an enclosure. Store fuel container out of the reach of children in a well ventilated, unoccupied building. Shut off fuel (when equipped with valve) while storing or transporting machine.
2. Clean grass and debris from engine, mufflers, drives and cutting units to help prevent overheating and fires. Clean up fuel, oil and excess grease.
3. When draining fuel tank, drain fuel into an approved container outdoors and away from open flame.
4. Check brakes frequently; adjust, repair or replace as needed.
5. Keep all bolts, nuts and screws properly tight. Check that all cotter pins are in proper position.
6. Always provide adequate ventilation when running engine. Engine exhaust gases contain carbon monoxide, an odorless and deadly poison.



IMPORTANT SAFETY INSTRUCTIONS



MAINTENANCE

(Continued From Previous Page)

7. Disconnect battery before performing maintenance or service. Cranking engine could cause injury. Disconnect negative (black) cable from battery first and positive (red) cable last. Reconnect positive first and negative last. Charge battery in an open, well ventilated area away from spark and flames. Unplug charger before connecting or disconnecting from battery. Wear protective clothing and insulated gloves.
8. Park machine on level ground. DO NOT work under machine without safety blocks.
9. Service engine and clean, adjust or repair only when engine and blades are stopped. Remove spark plug wire(s) from spark plug(s) and secure wire(s) away from spark plug(s).
10. DO NOT change engine governor speed settings or overspeed engine. DO NOT make adjustments with the engine running.
11. Lubricate machine at intervals specified in manual to prevent controls from binding.
12. Mower blades are sharp and can cut. Wrap the blades or wear heavy leather gloves and use CAUTION when handling them. Never straighten or weld blades, only replace them.
13. DO NOT test for spark by grounding spark plug next to spark plug hole; spark plug could ignite gas exiting engine.
14. Carefully release pressure from components with stored energy.
15. Have machine serviced by an authorized SNAPPER dealer at least once a year and have the dealer install any new safety devices. Never allow untrained personnel to service machine.
16. Use only genuine SNAPPER replacement parts to assure that original standards are maintained.

- 1) REMOVE HARDWARE.
- 2) EXTEND CASTER OUT TO LAST SET OF HOLES.
- 3) REINSTALL HARDWARE.

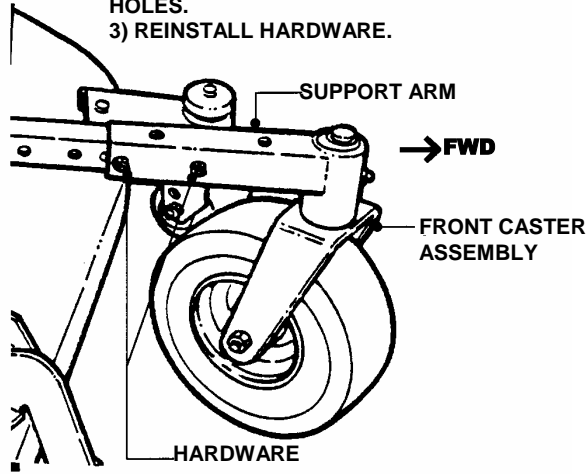


FIGURE 3

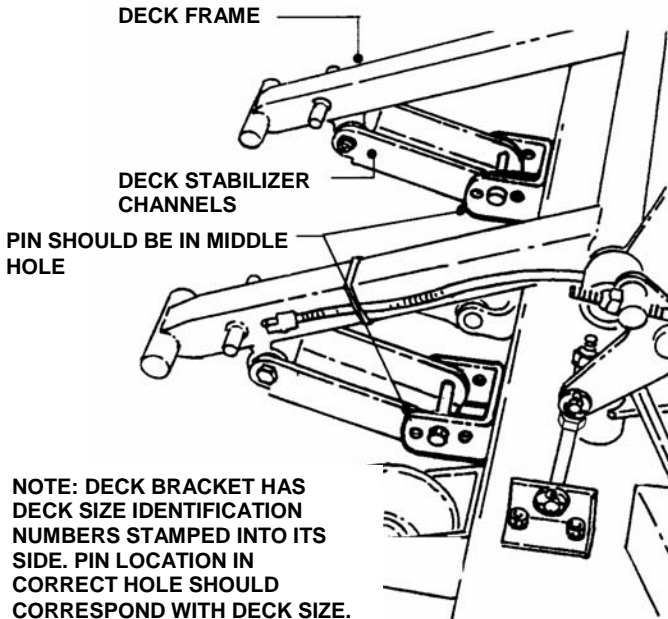


FIGURE 4

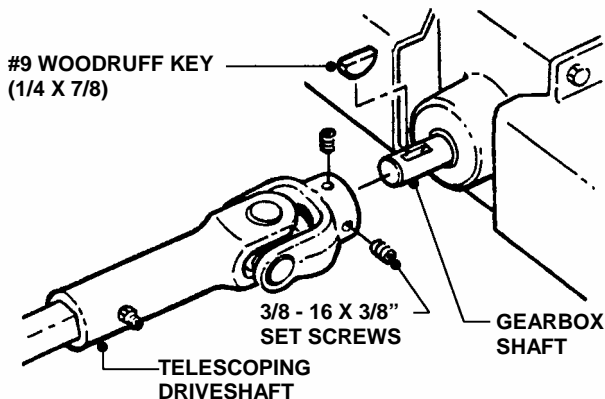


FIGURE 5

- STEP 7:** Secure Transfer Shaft to Gear Box Shaft using two screws. See Figure 5. Tighten securely.
- STEP 8:** Place a 2x4 under each rear caster. Block the front caster wheels so that they will not roll.
- STEP 9:** Locate jam nuts on the right timing rod and the right rear deck hanger rod. See Figures 6 and 12. Note position of nuts. You must return both nuts to this position after attaching the deck.

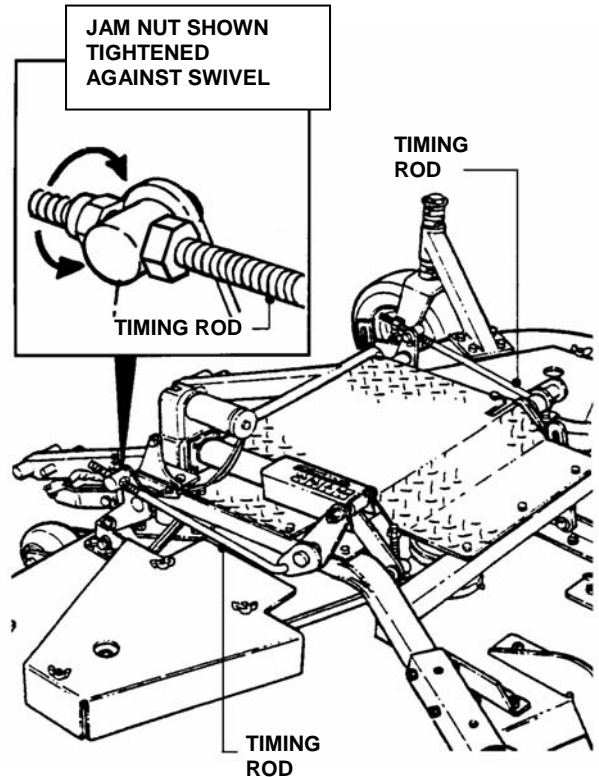


FIGURE 6

- STEP 10:** Run each (2) jam nut up against the swivels on the timing rod and the hanger rod. The deck linkage will not float when the nuts are in this position. This will allow the use of the electric actuator on the deck to lift and attach the deck frame to the power unit.
- STEP 11:** Located on the hitch plates at the front of the Power Unit, rotate the Spring-Loaded Hitch Latch Pins to the unlatched position. See Figure 7.
- STEP 12:** Engage Parking Brake. Start Power Unit.

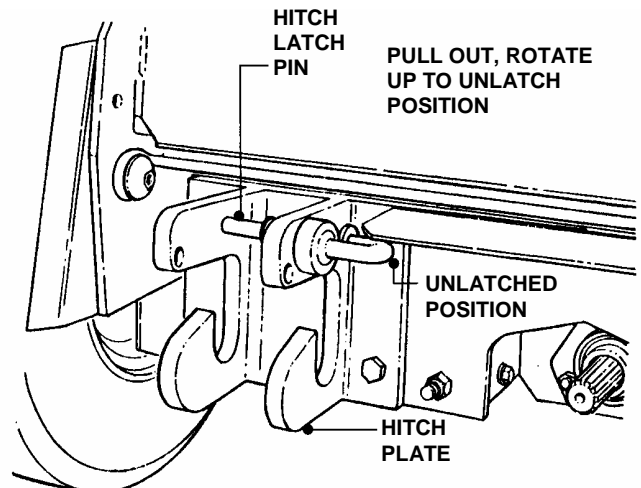


FIGURE 7

WARNING
 A small movement of the joystick can cause the power unit to move instantly. Move joystick very carefully and slowly.

STEP 13: Disengage Parking Brake. Carefully move Power Unit close to Mower Deck to connect Power Unit and Deck Wiring Harness. Turn engine "OFF". Plug in Deck Lift Wiring Harness from Power Unit into Deck Lift Wiring Harness. Turn Switch key to "ON" position (Do Not start engine!). Hold Deck Lift Switch in the "DOWN" position until the lift arm pins are in line with the hitch plates. See Figures 7 & 8.

STEP 14: Engage Parking Brake. Start engine and drive Power Unit forward until Lift Arm Pins are completely inserted into Hitch Plates. Once Lift Arm is in position with Hitch Plates, move Deck Lift Switch to the "UP" position and Lift Arm Pins will move lower into Hitch Plates. Stop engine. Rotate both Hitch Latch Pins around until they lock Lift Arm into Hitch Plates. See Figure 8.

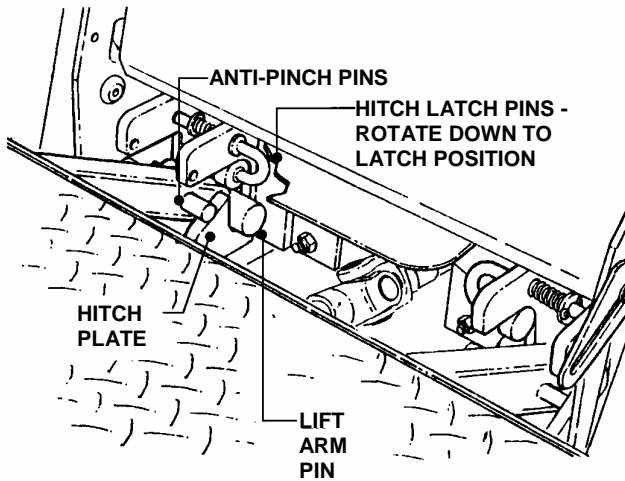
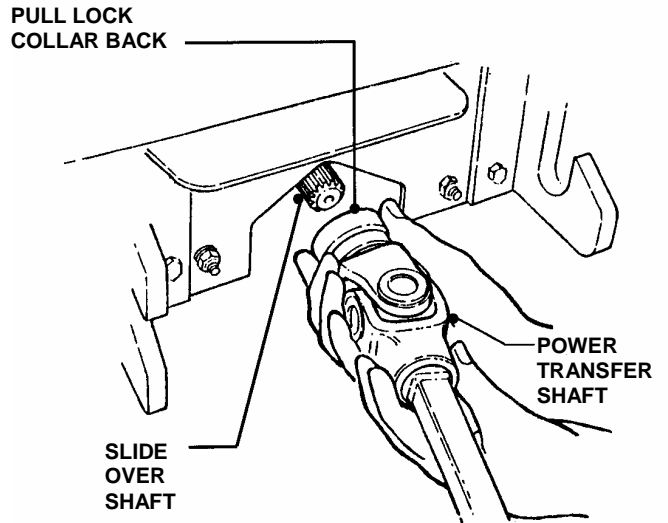


FIGURE 8

STEP 15: Return jam nuts on the timing rod and hanger rod back to original position. Refer to STEP 9.

STEP 16: Insert Power Transfer Shaft onto Power Take-Off (PTO) Shaft. When sliding Transfer Shaft onto PTO, the Lock Collar must be pulled back until Collar encounters the groove around the shaft. Release Collar so it locks/clicks into place in the groove. See Figure 9.

IMPORTANT: Make sure Drive Shaft is properly locked into groove and cannot be moved from that position. If Transfer Shaft is not properly installed, damage to Drive Shaft or PTO could result.



NOTE: DECK IS NOT SHOWN FOR CLARITY. DECK SHOULD BE IN POSITION AT THIS POINT IN THE SET-UP.

FIGURE 9

MAKING INITIAL DECK ADJUSTMENTS

STEP 17: Start engine and move unit to a level surface for deck adjustments.

STEP 18: Using the right, Discharge, blade as a reference, adjust both Timing Rods equal turns until front tip of blade is 1/4" lower than the rear tip. See Figures 10 & 11.

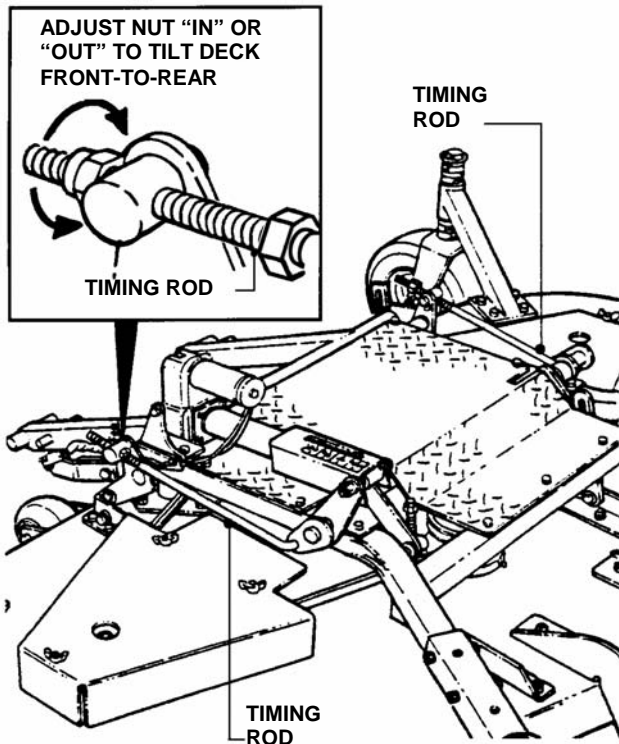
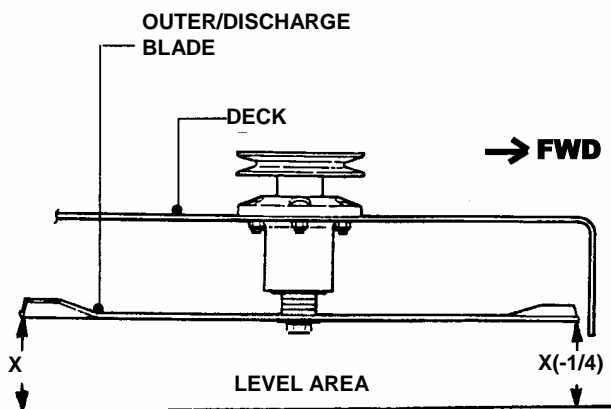


FIGURE 10



CUTAWAY VIEW - OUTER/DISCHARGE BLADE

FIGURE 11

STEP 19: Level deck from side-to-side by adjusting the Deck Hanger Rods up or down as required. See Figure 12.

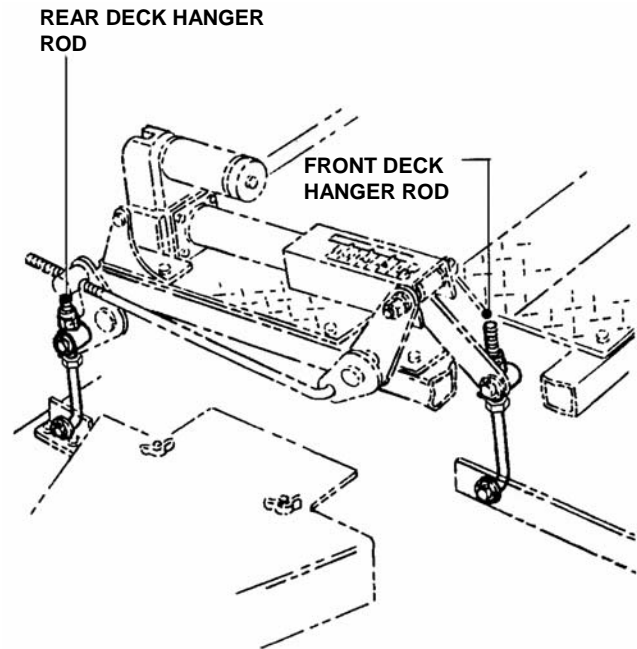


FIGURE 12

NOTE: Both Hanger Rods should be adjusted at the same increments to keep deck level. For "Fine Tuning", either Hanger Rod can be adjusted individually.

STEP 20: Remove Lynch Pins and reposition spacers evenly above and below the tube on rear casters.

IMPORTANT: The rear casters are adjustable. To lessen the amount of mower scalping, adjust rear casters by repositioning spacers to match the type of terrain being mowed.

STEP 21: Check installation thoroughly. Start engine and move machine outside.

CHECK GEAR BOX

Periodically check gear box lubrication.

1. Remove cap bolt located on the top of gear box. There should be visible oil inside gear box.
2. If gear box oil is low or is not visible, add a small quantity of 80W90 gear oil.
3. Replace cap bolt and tighten securely.

SERVICE & LUBRICATION

HOURS	PROCEDURE	COMMENTS
BREAK-IN	Check all Grease Points and add if necessary Check all Fasteners for proper tightness.	
DAILY	Remove Debris from under Belt Cover..... Sharpen Cutter Blades..... Grease Cutter Spindle Bearings..... Inspect Interlock Switches for Damage..... Inspect Belts for Wear or Damage.....	More often if needed. Tighten to 60-75 Ft.-Lbs. Use Chevron SRI Grease or equal. Replace if Needed. Replace if Needed.
WEEKLY	Check Tire Pressure..... Check Safety Interlock System..... Grease Caster Wheel Bearings..... Grease Caster Support Arms..... Grease Idler Arm Pivots on Cutter Deck.....	Add or Adjust as required. Inspect OPC Switch for proper Operation. General Purpose Grease. General Purpose Grease. General Purpose Grease.
MONTHLY	Lube Controls and Linkages..... Gear Box Lubrication.....	Use Medium Duty Oil. Use 80W90 Gear Oil (Total Capacity is 16 Ounces)

DECALS



DECAL P.N. 7-3647



DECAL P.N. 4-6371



DECAL P.N. 1-3010

SNAPPER®

2 YEAR LIMITED WARRANTY

For two (2) years from purchase date for the original purchaser's use, **SNAPPER**, through any authorized **SNAPPER** dealer will replace, free of charge (except for taxes where applicable), any part or parts found upon examination by the factory at McDonough, Georgia, to be defective in material or workmanship or both.

SNAPPER FIELD SERVICEABLE SPINDLES and their components used on **SNAPPER PRO**® Mid Size walks and **SNAPPERZRIDER**® ride on commercial equipment have a three (3) year limited warranty against defects in material or workmanship or both.

All transportation costs incurred by the purchaser in submitting material to an authorized **SNAPPER** dealer for replacement under this warranty must be paid by the purchaser.

This warranty does not apply to engines and their components, and batteries, as these items are warranted separately. This warranty does not apply to parts that have been damaged by accident, alteration, abuse, improper lubrication, normal wear, or other cause beyond the control of **SNAPPER**. This warranty does not cover any machine or component that has been altered or modified, changing safety, performance, or durability.

Batteries have a one (1) year prorated warranty period with free replacement if required during the first ninety (90) days from the original purchase date. **SNAPPER** will not be responsible for any installation cost incurred. The battery warranty only covers original equipment batteries and does not cover damage to the battery or machine caused by neglect or abuse, destruction by fire, explosion, freezing, overcharging, improper maintenance, or use of improper electrolyte.

There is no other express warranty.

DISCLAIMER OF WARRANTY

Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to two (2) years from purchase date for the original purchaser's use, and up to the extent permitted by law and all implied warranties are excluded. This is the exclusive remedy. Liabilities for consequential damages, under any and all warranties are excluded.

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion 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.

WARNING: THE USE OF REPLACEMENT PARTS OTHER THAN GENUINE SNAPPER PARTS MAY IMPAIR THE SAFETY OF SNAPPER PRODUCTS AND WILL VOID ANY LIABILITY AND WARRANTY BY SNAPPER ASSOCIATED WITH THE USE OF SUCH PARTS.

IMPORTANT: Please fill out the attached **SNAPPER** Product Registration Card immediately and mail to:
Snapper's Product Registration Center, P.O. Box 1379, McDonough, Georgia. 30253

SNAPPER® McDonough, GA., 30253 U.S.A.