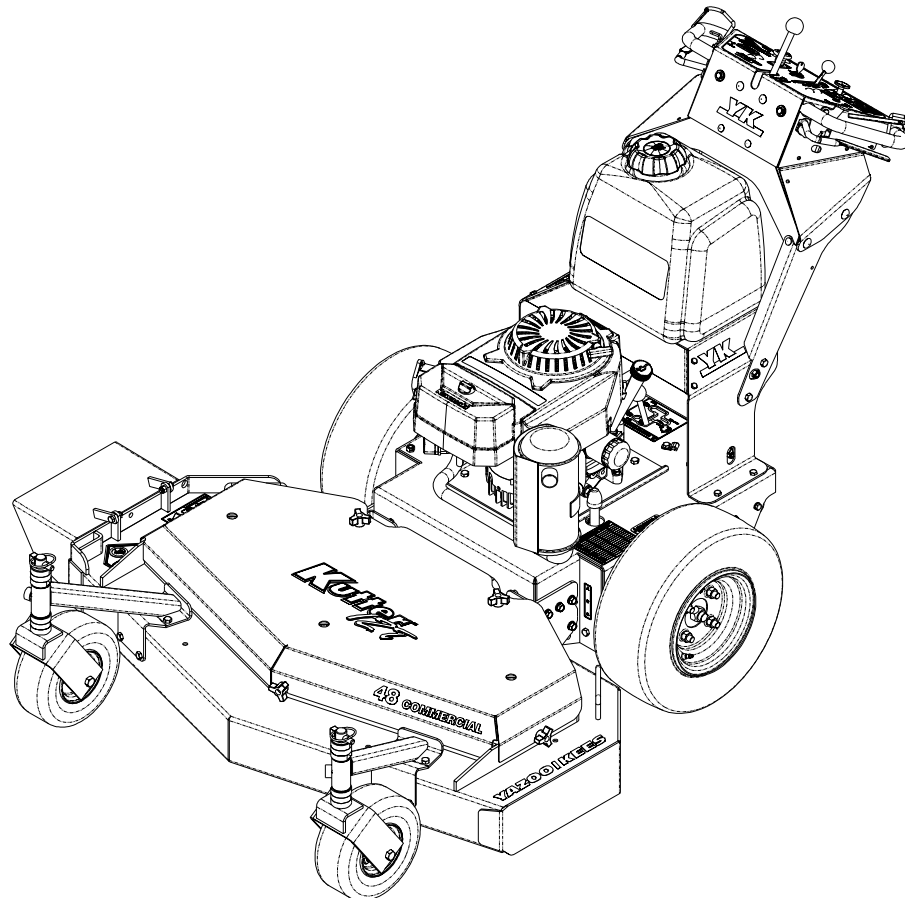


# ***YAZOO / KEES***



## **Operator's Manual**

## **Models:**

KIKW36150

KIKW48150

KIKW48170

Thank you for buying a **YAZOO/KEES!** Before operating your new mower, read, understand and follow the important safety instructions and the other instructions contained in this manual. Lawn mowers and all power equipment, can be potentially dangerous if used improperly. **SAFETY REQUIRES GOOD JUDGEMENT, CAREFUL USE IN ACCORDANCE WITH INSTRUCTIONS AND COMMON SENSE.**

**Congratulations** on the purchase of your **Yazoo/Kees** mower. This manual has been prepared for the owners and operators of the IZT walk-behind commercial mowers. Read, understand and follow the safety and operating instructions.



### **WARNING**

Failure to follow cautious operating practices can result in serious injury to the operator or other persons. The owner must understand these instructions, and must allow only trained persons who understand these instructions to operate the mower. Each person operating the mower must be of sound mind and body and must not be under the influence of any mind altering substance.



### **CAUTION**

1. Keep all shields, guards and safety devices in place and in proper working condition.
2. Stop engine and remove spark plug wires or remove key before adjusting, servicing, or performing maintenance.

### **TECHNICAL ASSISTANCE**

If you have any questions pertaining to your mower contact your dealer. To locate the nearest dealer please call 1-877-368-8873 or for more information go to our web site at **[www.yazookees.com](http://www.yazookees.com)**.

For technical assistance please write: Yazoo/Kees, 700 Park Street, Beatrice, NE 68310 or call: 1-877-368-8873.

**WARNING: Engine exhaust, some of it's constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.**

Continuous dedication to improve our products require that specifications and design are subject to change without notice.

# Table of Contents

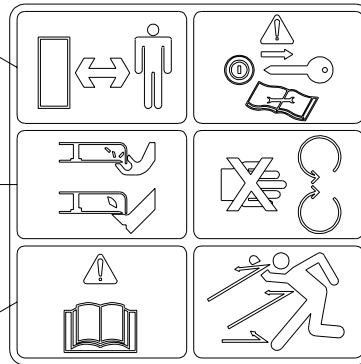
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## SAFETY DECALS

STAY A SAFE DISTANCE  
FROM THE MACHINE

RISK OF SEVERING OF  
TOES OR FINGERS  
MOWER BLADES

READ OPERATORS  
MANUAL BEFORE  
OPERATING MACHINE

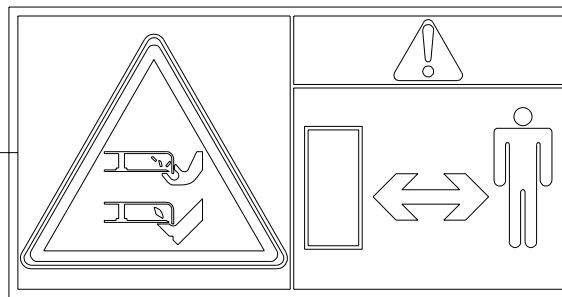


SHUT OFF ENGINE AND  
REMOVE KEY BEFORE  
PERFORMING ANY  
MAINTENANCE OR REPAIR

DO NOT OPEN OR REMOVE  
SAFETY SHIELDS WHILE  
ENGINE IS RUNNING

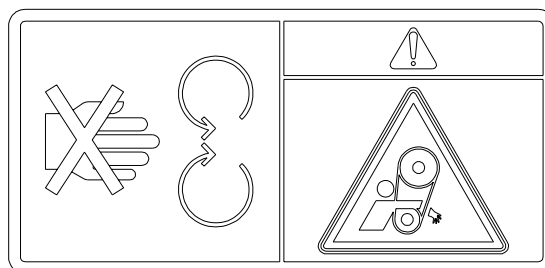
RISK OF THROWN OR  
FLYING OBJECTS

RISK OF SEVERING OF  
TOES OR FINGERS  
MOWER BLADES



STAY A SAFE DISTANCE  
FROM THE MACHINE

DO NOT OPEN OR REMOVE  
SAFETY SHIELDS WHILE  
ENGINE IS RUNNING



RISK OF BECOMING  
ENTANGLED WITH BELTS

## SAFETY



### WARNING

**Failure to comply with the following instructions may result in serious injury to the operator or other persons. The owner must understand these instructions, and must allow only persons who understand these instructions to operate the mower. Each person operating the mower must be of sound mind and body and must not be under the influence of any mind altering substance.**

### TRAINING:

1. Read this manual carefully and question your dealer if something is not clear.
2. Be thoroughly familiar with the controls and proper use of the equipment.
3. Never allow children, teenagers, or people unfamiliar with these instructions to use the mower.
4. Do not mow while people, particularly children, or pets are nearby.

### PREPARATION:

1. The use of personal protective equipment such as (but not limited to) protection for the eyes, ears, feet and head is recommended.
2. Never operate the mower without proper guards, covers, safety switches and devices in place and properly functioning. Inspect these items daily for their condition and proper operation. If the condition or operation of any of these devices is questionable they must be replaced or repaired before using the mower.
3. Thoroughly inspect the area to be mowed and remove all stones, sticks, wire and other debris that may be thrown by the mower. Also note or mark other obstacles such as holes, stumps, etc..
4. Do not operate the mower when barefoot or wearing open shoes. Always wear substantial footwear and long pants.
5. Fill gas tank before starting mower. **DO NOT SMOKE** near gasoline containers. Do not fill gas tank indoors or when engine is hot or running. Clean off any spilled gasoline before starting the mower.

6. Never attempt to make any adjustments (even the smallest) when engine is running.
7. Mow only in daylight or good artificial light.
8. Never operate mower in wet grass. Always be sure of your footing; keep a firm grip on the handle and walk, never run.

### OPERATION:

1. Do not change engine governor settings or over speed the engine.
2. Keep hands, feet, and clothing away from rotating parts when operating mower.
3. Disengage blade drive when crossing gravel drives, walks, roads or under any condition where thrown objects might be a hazard.
4. After striking a foreign object or if mower vibrates abnormally, stop the engine and disconnect the spark plug. Inspect the mower for any damage and repair the damage.
5. Stop the engine and wait for the blades to stop rotating whenever you leave the operating position for any reason, including emptying the grass catcher or making any adjustments or repairs.
6. Mow across slopes, never up and down. Use caution when changing direction on slopes. Always turn uphill. Do not mow very steep slopes. Do not use sully on any slopes.
7. When parking mower, stop engine and lock the drive levers up in the thumb latches. Apply park brake to prevent rolling. Never park mower on a slope.
8. **NEVER OPERATE THIS EQUIPMENT, WITH ENGINE RUNNING, IN AN ENCLOSED OR CONFINED AREA WITHOUT PROPER VENTILATION OF THE ENGINE EXHAUST.**

### MAINTENANCE:

1. Keep all nuts, bolts, and screws tight to keep mower in safe operating condition.
2. Never store the mower with gas in the tank inside a building where fumes can reach an open flame or spark. Allow engine to cool before storing in an enclosure.
3. To reduce fire hazard, keep mower free of grass, leaves, or excessive grease.
4. Check grass catcher assembly frequently for wear or deterioration. Replace bag if loose seams or tears are evident.

## **SAFETY**

5. Have your mower inspected and serviced each year by an authorized Yazoo/Kees dealer. Determine if any additional devices are available which might upgrade the safety of your mower.
6. Use only authentic Yazoo/Kees replacement parts to insure the safety and quality of your mower is maintained.
7. Safety decals should be replaced if they are missing or illegible. Decals may be purchased from your Yazoo/Kees dealer or from Yazoo/Kees.

### **TRANSPORTATION:**

Turn off fuel valve, lock park brake and strap mower to trailer.

## SET-UP

### EQUIPMENT:

1. Uncrate mower, cut four plastic ties holding mower to pallet.
  2. Mount front caster assemblies to the front deck using the fasteners provided on the deck (both sides)
  3. Cut the plastic wire ties holding the operator presence levers down.
  4. Check tire pressure in all four tires. (Rear tires 15 PSI, front tires 15 PSI)
  5. Check engine oil with dipstick. Add if needed per engine manufactures specifications. (See engine manual.)
- b. Push down on the handles and lift the rear of the cutting deck up off of the ground. Block the rear of the cutting deck off of the ground the following distances (boards work well).  
Deck Position A: 3 1/4"  
Deck Position B: 2"  
Deck Position C: 3/4"  
Lower the deck down onto the blocks. Now remove the outer three bolts on each side of the rear deck. See Figure 2.

### CUTTING HEIGHT:

1. Before changing cutting heights make sure the blades are off, key switch is off, and remove spark plug wire or wires.
2. Cutting height ranges from 1 1/2" to 5" in 1/4" increments. Factory setting is 3".
3. Cutting height can be changed three ways. Move one "C" spacer on the front casters, change the blade spacers, or change rear deck position.
- 4.
- a. To change heights on the rear deck loosen, but **do not** remove the middle bolt on each side of the rear deck, and the two bolts on the front side of the rear deck. See Figure 1.

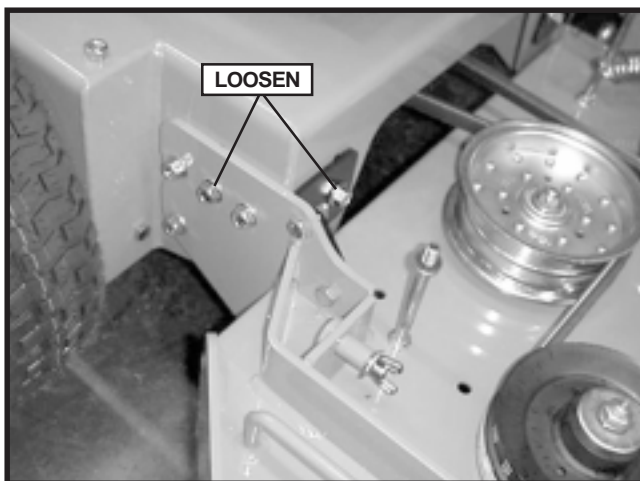


FIGURE 1



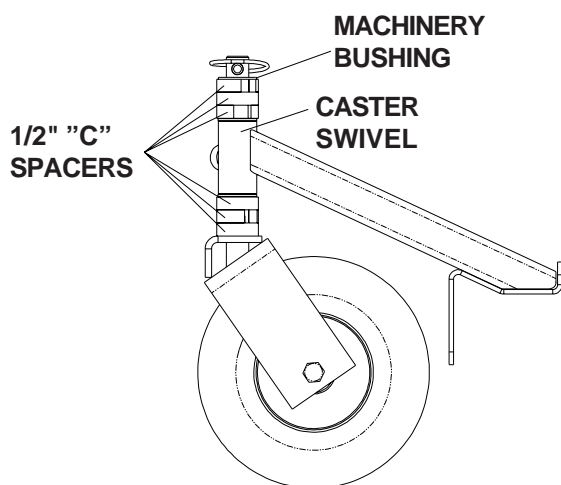
FIGURE 2

- c. Tip the handles up or down until the correct position is achieved. See chart on page 9 or reference the height decal located on the muffler side of the rear deck.
  - d. Reinstall and tighten the outer three bolts on each side. **NOTE:** A tapered punch may be needed to help align the holes.
  - e. Retighten the center bolts on each side and the two bolts on the front of the rear deck.
5. Using the chart (on page 9), find the correct number of spacers to be placed under the caster swivel. Reference chart on page 9.

**NOTE:** To achieve the best quality cut, the blades should be level with the ground or slightly tipped down in the front.

## SET-UP

### CASTER HEIGHT ADJUSTMENT



**FIGURE 3**

### CUTTING HEIGHT ADJUSTMENT CHART

CUTTING HEIGHT	REAR DECK POSITION	BLADE SPACERS	CASTER SPACERS ON BOTTOM
1 1/2	C	2	0
1 3/4	C	1	0
2	C	2	1
2 1/4	C	1	1
2 1/2	C	0	1
2 3/4	B	1	2
3	B	2	3
3 1/4	B	1	3
3 1/2	B	0	3
3 3/4	B	1	4
4	A	2	5
4 1/4	A	1	5
4 1/2	A	0	5
4 3/4	A	1	6
5	A	0	6

**NOTE:** To quickly achieve small changes in cutting heights, move the spacers from under the cutter housing to the pin on top of the cutting deck. See Figure 4. (Each spacer moved will give an additional 1/4" of cutting height ).

**NOTE:** Blade bolt **MUST** be torqued to 90 ft./lbs.

USE ONLY 2 BLADE SPACERS MAXIMUM

## SET-UP

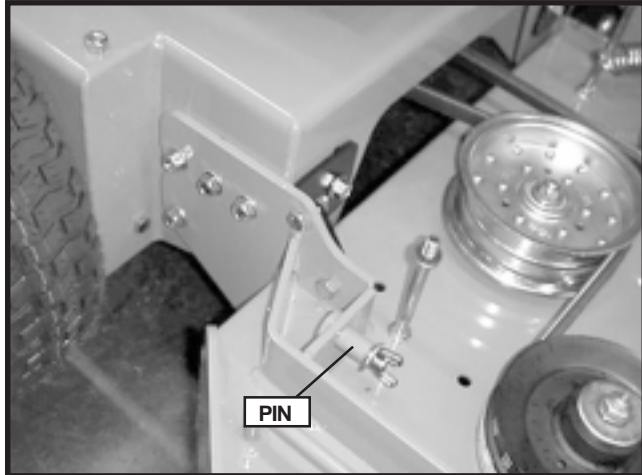


FIGURE 4

### MOTION CONTROL ADJUSTMENT

This adjustment must be made with the drive wheels rotating.

1. Raise the rear of the unit off of the ground until the tires can rotate freely. Secure the unit with jack stands.



#### CAUTION

Keep hands, feet and clothing away from rotating tires.

2. With the blades disengaged and the drive levers locked securely in the thumb latches, start the engine.
3. Move the ground speed lever to the fast position.
4. Using two 9/16" wrenches, loosen the jam nut on the bottom side of the turnbuckle on the motion control linkages.
5. Turn the turnbuckle in the appropriate direction until the tire stops turning.
6. Holding down either or both O.P. levers, unlock the thumb latches and release the drive levers. The tires should be rotating full speed forward.
7. Pull up on the drive levers and lock them in the thumb latches.
8. Verify that the tires stop rotating. Readjust if necessary.
9. Tighten jam nuts on motion control linkages.

10. Repeat on the other side if necessary.

After these adjustments have been made, it may be necessary to adjust the tracking bolt and tracking knob. See Tracking Adjustments.

### TRACKING ADJUSTMENTS

This adjustment must be made with the drive wheels rotating.

1. Raise the rear of the unit off of the ground until the tires can rotate freely. Secure the unit with jack stands.



#### CAUTION

Keep hands, feet and clothing away from rotating tires.

2. With the blades disengaged and the drive levers locked securely in the thumb latches, start the engine.
3. Adjust the motion control linkages (See Motion Control Adjustment).
4. With the ground speed lever in the fast position, loosen the tracking knob and tracking bolt until the threaded portion is just thru the weld nuts.
5. Move the ground speed lever to the slow position.
6. Adjust the tracking bolt and the tracking knob until they just contact the tracking plate that is welded to the drive levers.
7. Holding down either or both O.P. levers, unlock the drive levers from the thumb latches. The tires should not rotate. If they do, further adjustments may be needed.
8. Once the tires stop rotating, move ground speed lever to the fast position and back to the slow position. Verify that the tires do not rotate. Readjust if necessary.
9. Lock the drive levers into the thumb latches. Verify that the tires do not rotate.

**NOTE:** A small amount of grease needs to be on the tracking plate where the tracking bolt and tracking knob contact it. Failure to keep grease on the tracking plate may result in premature mis-adjustments of either tracking or motion control linkages.

## SET-UP

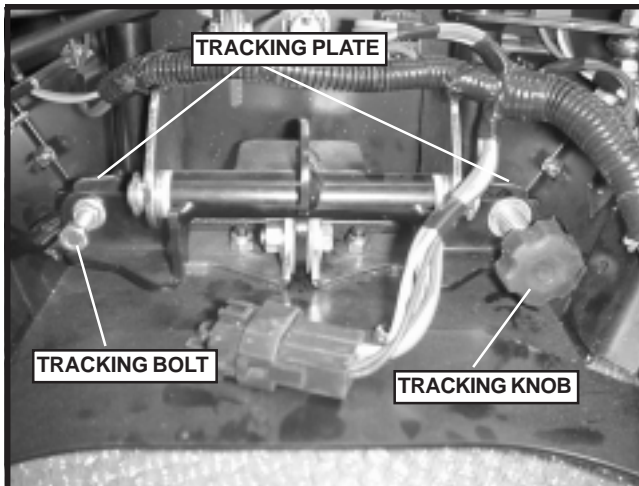


FIGURE 5

### GROUND SPEED LEVER FRICTION

The ground speed lever has friction washers to adjust the tension of the lever. To adjust, use two 9/16" wrenches and tighten or loosen the bolt and nut on each side of the friction plate. See Figure 6.

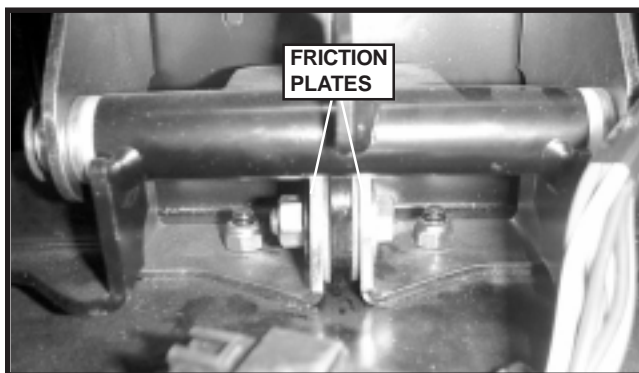


FIGURE 6

### BRAKE ADJUSTMENT

Jack up the rear of the unit and secure with jack stands. Remove the rear guard on the back of the rear deck. Remove the hairpin and washer from the rear of the brake linkage. See Figure 7. Place the brake/bypass lever in the brake position. Pull back on the brake linkage. Verify that the IZT brake arms are fully seated in the brake cogs. (The tires may need to be rotated slightly to seat the brakes.) Turn the linkage in the swivel until the linkage just slides in the hole in the brake bell crank. Replace the washer and hairpin. Verify that the brakes engage.

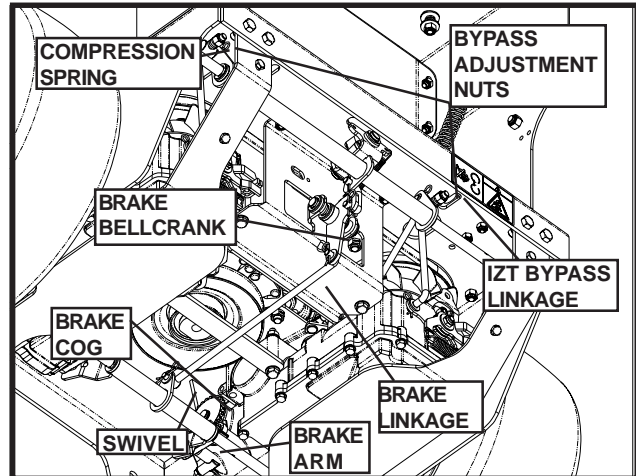


FIGURE 7

### BYPASS ADJUSTMENT

If the mower will not free wheel with the brake/bypass lever in the bypass position, an adjustment may be needed. Jack up the rear of the unit and secure with jack stands. Remove the rear guard on the back of the rear deck. (See Figure 7.) Place the brake/bypass lever in the brake position. Using a 1/2" wrench, tighten the nyloc nut on the bypass linkage until the compression spring is fully compressed. Move the brake/bypass lever into the bypass position. Check the tires to verify that they will turn. If they still will not turn, a brake adjustment may be required. (See Brake Adjustment.)

**NOTE: IF THE BYPASS ADJUSTMENT IS MADE WITH THE BRAKE BYPASS LEVER IN THE BYPASS POSITION, THE BRAKE POSITION MAY NOT BE OBTAINABLE.**

### INTERLOCK SAFETY SYSTEM

The interlock modules function is to prevent the engine from starting if the blades are engaged and/or the driver levers are not locked in the thumb latches. It also causes engine shutdown if the operator removes hands, or attempts to leave the operator position while the blades are engaged or the drive levers are not locked in the thumb latches. After the engine starts, the operator must hold either the left or right O.P. lever down before engaging the blades or unlocking the thumb latches. If neither O.P. lever is held, the engine will kill. Check the function of the safety electrical system on a regular basis.

## SET-UP

1. Engine must kill if blades are engaged without O.P. levers held down.
2. Engine must kill if the thumb latches are unlocked without holding O.P. levers down.
3. Engine must not start unless the blades are disengaged and the drive levers are locked in the thumb latches.
4. Do not operate the mower if the interlock safety system allows operation or starting in any unsafe condition.

### HANDLE HEIGHT ADJUSTMENT

The height of the handles is adjustable to two positions to accommodate different height operators. The handles are preset from the factory in the highest position. To adjust the handles to the lower position, remove the top bolt on each side of the handle where it is bolted to the tank support. Tilt the handles down until the next set of holes line up. Reinstall the bolts and nuts and tighten. Check that the bottom bolts are tight as well. Reverse the steps to raise the handles to the higher position.

**NOTE:** The motion control adjustments will need to be reset after changing the height of the handles. See the Adjustment section on page 9.

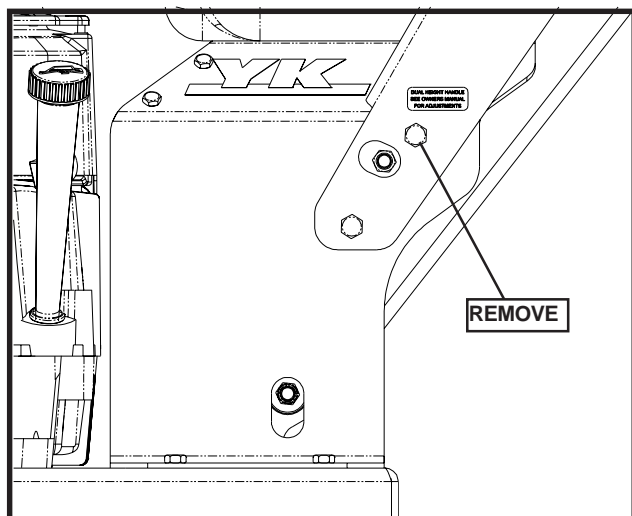


FIGURE 8

## OPERATION

### CONTROLS:

Be thoroughly familiar with all controls their function and how to operate them before operating the mower.

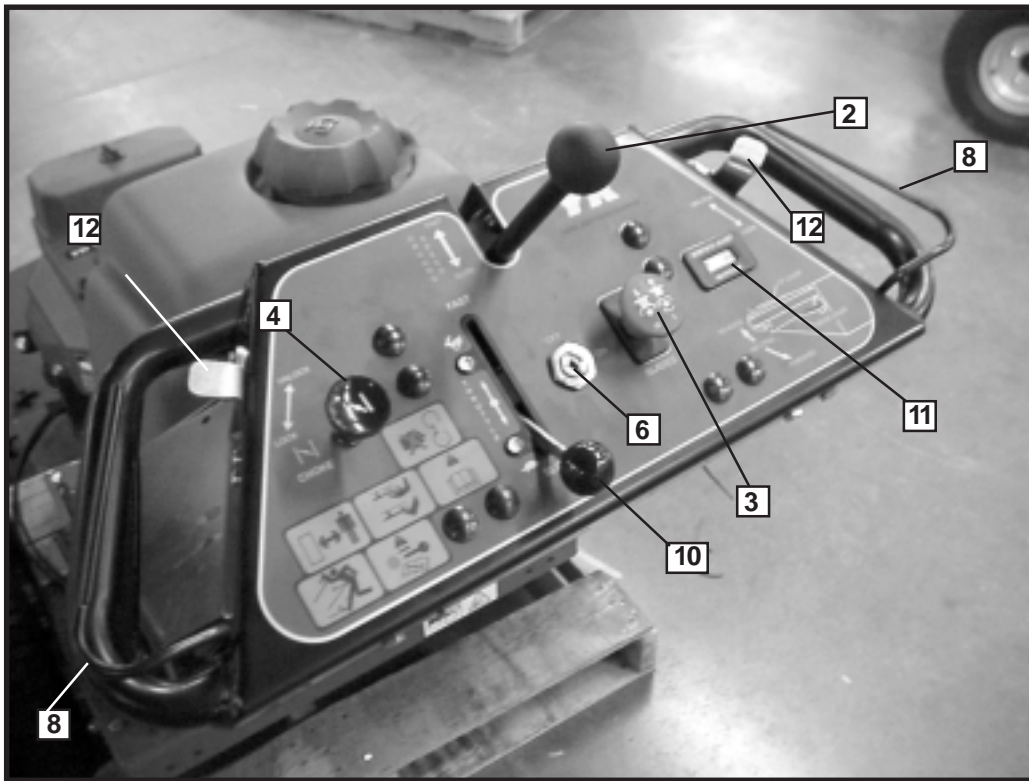


FIGURE 9

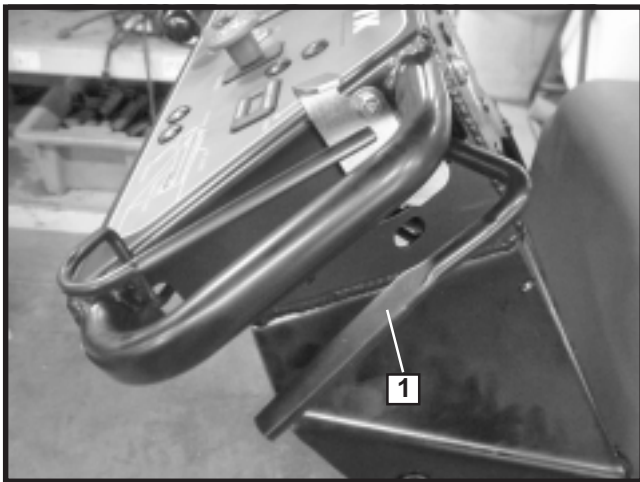


FIGURE 10

1. **Drive levers:** Located on each side of the handle control direction of movement.
2. **Ground speed lever:** Located in the center of the console. Controls the forward speed of the mower. Push the lever forward if you want to go faster, pull it back to go slower or pull it all the way back to the stop position.

**NOTE:** To begin motion the operator must move the ground speed lever forward before unlocking the thumb latches. After you unlock the thumb latches, allow the drive levers to move down at the same time. The mower will move in a straight line forward.

Movement of the right drive lever down will cause the right wheel to rotate in a forward direction. Movement of the left drive lever down will cause the left wheel to rotate in a forward direction. To stop forward travel pull levers up until higher hand pressure is felt.

To turn right while moving in a forward direction squeeze the right drive lever up towards the stop position, this will slow the right wheel and cause the mower to turn in that direction.

To turn left while moving in forward direction squeeze the left drive lever up towards the stop position, this will slow the left wheel and cause the mower to turn in that direction

## OPERATION

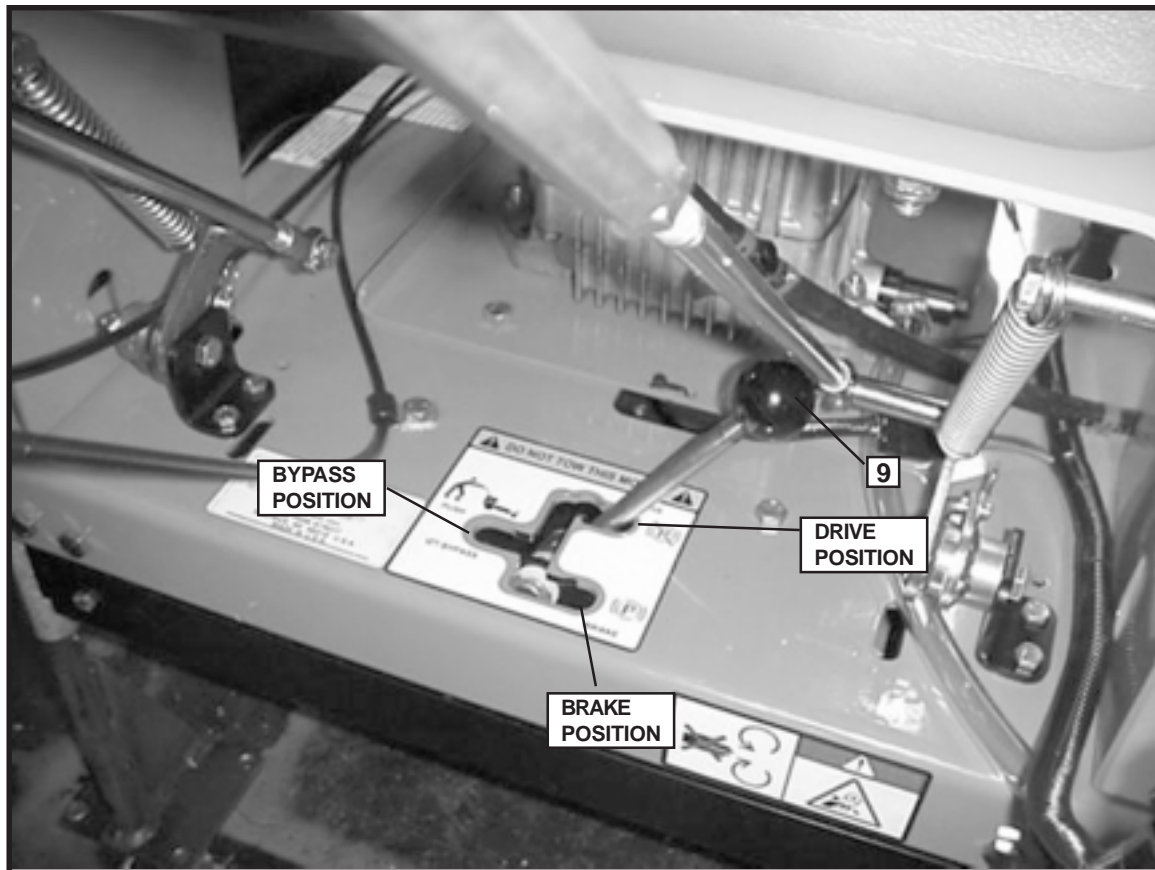


FIGURE 11

3. **Blade engagement switch:** Located in the middle of the console. To engage the blades pull up on the switch, to disengage the blades push down on the switch.
4. **Choke:** Located on the left side of the console. Use when starting cold engine do not run choke when engine is warm. Use the throttle to control the engine RPM.
5. **Tracking knob:** Located under the console towards the front right corner. If the mower will not travel in a straight line on a smooth surface, turn the tracking knob the proper direction until it straightens out.
6. **Key switch:** Located on the console. The key switch must be turned on, blades disengaged, and drive levers locked in the thumb latches before starting.
7. **Fuel shut off valve:** Located under the tank support in the fuel line.
8. **Operator presence levers:** Located on the handle. One or both levers must be pressed against the handle for the mower to remain running, when the blades are engaged or neutral lock bail is not locked in drive levers.
9. **Brake/Bypass Lever:** Located at the back of the rear deck. Used to apply park brake or bypass/ IZT for free wheel (neutral) condition.
10. **Throttle Control:** Controls speed of engine
11. **Hour Meter:** Records the number of hours the unit is operated.
12. **Thumb Latches:** Locks drive levers in the stop position.

## OPERATION

### STARTING:

1. Making sure the blades are disengaged, drive levers are locked in the thumb latches, brake/bypass lever is in the drive position and the fuel valve on.
2. Adjust choke (if needed) turn key to on position.
3. Pull start the engine. Once the engine is running adjust the throttle.
4. Holding down at least one of the operator presence levers, engage blades and set RPM to maximum, but not choked. NOTE: Be sure all persons are clear of area before engaging the blades. To prolong spindle bearing and belt life engage and disengage blades at approximately 1/2 throttle.
5. Set the ground speed lever to the desired position.
6. Unlock the thumb latches.

**NOTE:** Thumb latches are spring loaded to unlock when the drive levers are squeezed. Slightly pull upon the drive levers to unlock the thumb latches.

### TO TRANSPORT

When pushing or pulling the mower, be sure to move brake/bypass lever to the bypass position. Brake/bypass lever is located on the back of the rear deck.



- move the brake/bypass lever to the bypass position.
- To reengage the IZT's move the brake/bypass lever into the drive position.

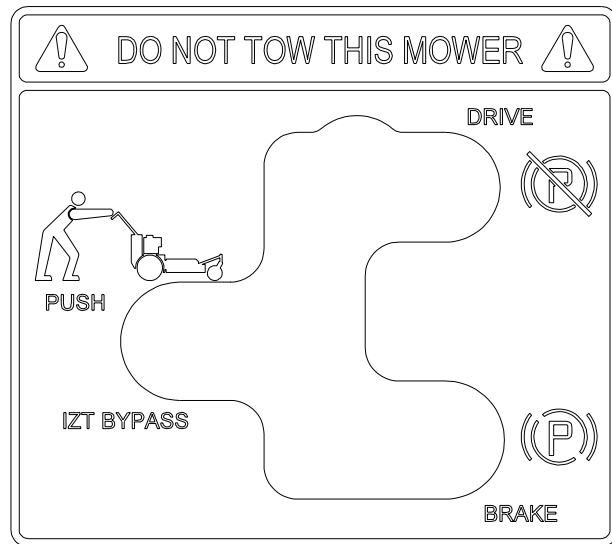


FIGURE 12

### MOWING TIPS

- The cutting deck should be properly leveled for best mowing performance. The blades should be parallel to the ground or slightly tipped down in the front.
- The left hand side of the deck should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the mower. This will result in more even distribution of clippings and a more uniform cut.
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; second to desired height.
- Do not mow grass when it is wet. Wet grass will plug the deck and leave undesirable clumps. Allow grass to dry before mowing.
- **Always operate engine at full throttle when mowing** to assure better mowing performance and proper discharge of material. Regulate ground speed by going slow enough to allow proper deck cutting performance as well as the quality of cut desired. When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

## MAINTENANCE

1. Engine oil level: Check daily with engine cold and on a flat surface. Remove the dipstick and wipe clean. Reinsert the dipstick all the way, but do not screw down. Remove the dipstick and check oil level. If oil level is low add oil. Use engine manufacturers specs for type of oil.
2. Mower blades: Stop engine and remove key. Inspect blades and sharpen or replace as needed. Check daily or more often if needed. The machine requires more power with dull blades and gives a poor cut. If blades get bent, replace them. Blades shouldn't have any notches from hitting objects. The air foil on top of the blade should be sufficient to raise the grass for cutting. If blades are in good condition, sharpen at an angle of 22 to 28 degrees about 2-1/2 inches in from the tips.

### Blade Removal

**NOTE:** Protect your hands with gloves and/or wrap blade with heavy cloth.

- Remove blade bolt by turning counterclockwise.
- Install new or re-sharpened blade.
- Install and tighten blade bolt securely (90 ft./lbs. torque).

### To Sharpen Blade



#### **WARNING**

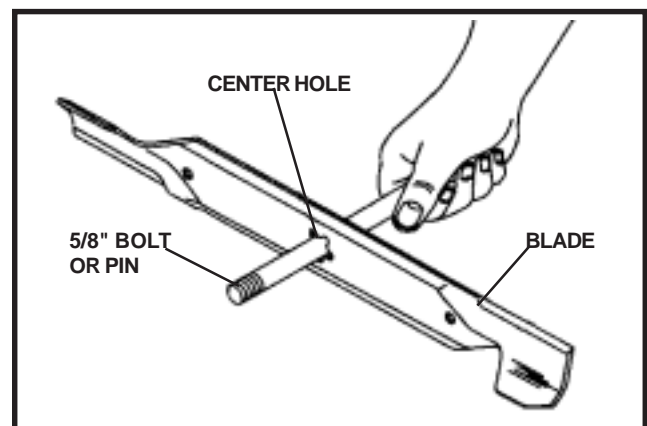
**When it is necessary to raise the mower for any repair or service, use jackstands to provide adequate support. DO NOT rely on hydraulic or mechanical jacks**

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

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

**NOTE:** Do not use a nail for balancing the blade.

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



**FIGURE 13**

3. Safety interlock system: Check daily and never operate the mower if this system is not functioning properly.
4. Hardware: Stop engine and remove key thoroughly inspect the entire machine for any missing or loose hardware. Check daily.
5. Air cleaner: Stop engine and remove key. Remove plastic cover and loosen wingnut on the air cleaner. Remove the foam pre-cleaner and wash or replace if needed. Inspect paper filter and replace if dirty. Check every 25 hours, daily if in very dirty conditions. Fuel efficiency, engine RPM, and available power goes down rapidly if the air filter is dirty. Prolonged effects could damage the engine.

## MAINTENANCE

6. Engine oil: Change oil to manufacturers specifications. Stop engine and remove key. Drain oil when engine is warm. Loosen the 3/8" hex head on the oil drain valve at the right rear of the engine block. **Be sure that the oil drain hose is on the drain and securely tightened.** Retighten the valve after oil is drained. Remove oil filter. After oil is drained, put a light coat of clean oil on the new filter gasket before installing. Install on engine. **Thoroughly clean around the cap before removing the dipstick.** Fill engine with oil, using manufacturers specs, see Engine Owners Manual. Start engine and idle slowly to allow the oil to recoat the interior of the engine and then inspect for leaks.
7. Tire pressure: Check every 25 to 50 hours. Rear tires require 15 psi and caster tires 15 psi
8. Belts: Check every 75-100 hours. Stop engine and remove key. Check the condition of all belts.
9. Lubrication (every 25 hours): Caster tires and front caster pivots spring loaded idler on deck. (Clean grease zerk thoroughly before greasing)
10. Fuel filter: 100 hours.
11. IZT'S are maintenance free and DO NOT require service.
12. Tracking Plate: Grease every 50 hours. The tracking plate is welded to each drive lever. The tracking knob and tracking bolt move on this surface. Failure to grease regularly may result in premature neutral and tracking mis-adjustment.

### DECK BELT REPLACEMENT

First remove the belt shield from the front deck. Use a ratchet with a 9/16" socket on the spring idler bolt to relieve the spring tension on the belt. Slide the belt off of the pulleys. Jack up the rear of the unit and place jack stands under the rear deck.

Remove the nut and washer from the left hand side of the clutch tie down. (See Figure 12). Rotate the clutch tie down to the rear and remove the belt from the clutch. Reverse the procedures for installation of the new belt.

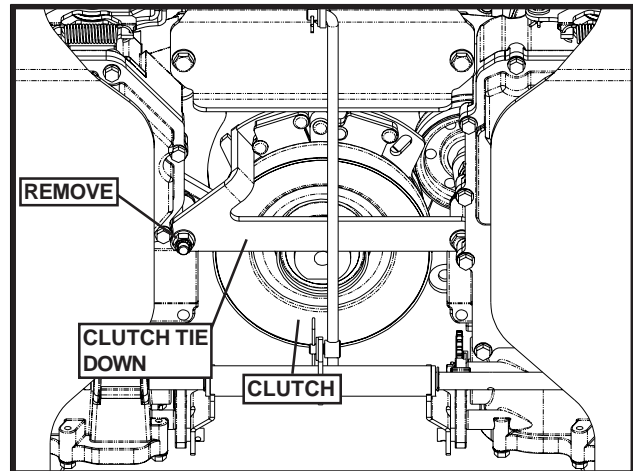


FIGURE 14

### IZT BELT REPLACEMENT

First remove the deck belt (see Deck Belt Replacement). Be sure the unit is still on jack stands. Use a 1/2" breaker bar on the spring idler arm and relieve the spring tension from the IZT belt. See Figure 13. Secure the spring idler out of the way being sure to keep tension on the spring so it does not come unhooked from the idler arm. Slide the belt off of the rear of the IZT pulley. Pull the belt across the top of the pulleys and over the clutch. Reverse the procedures for installation of the new belt.

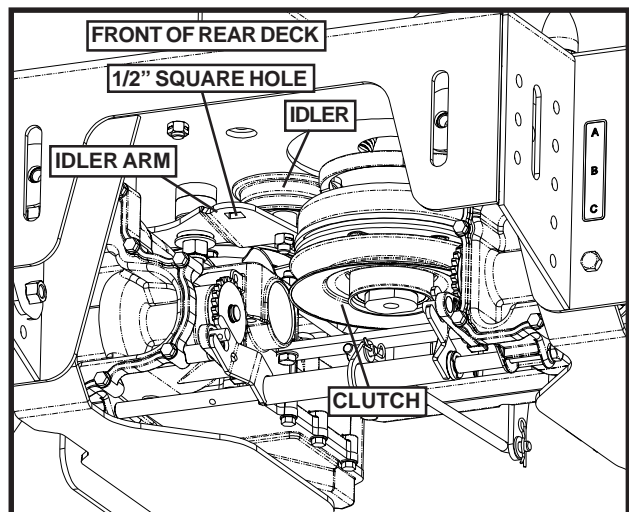


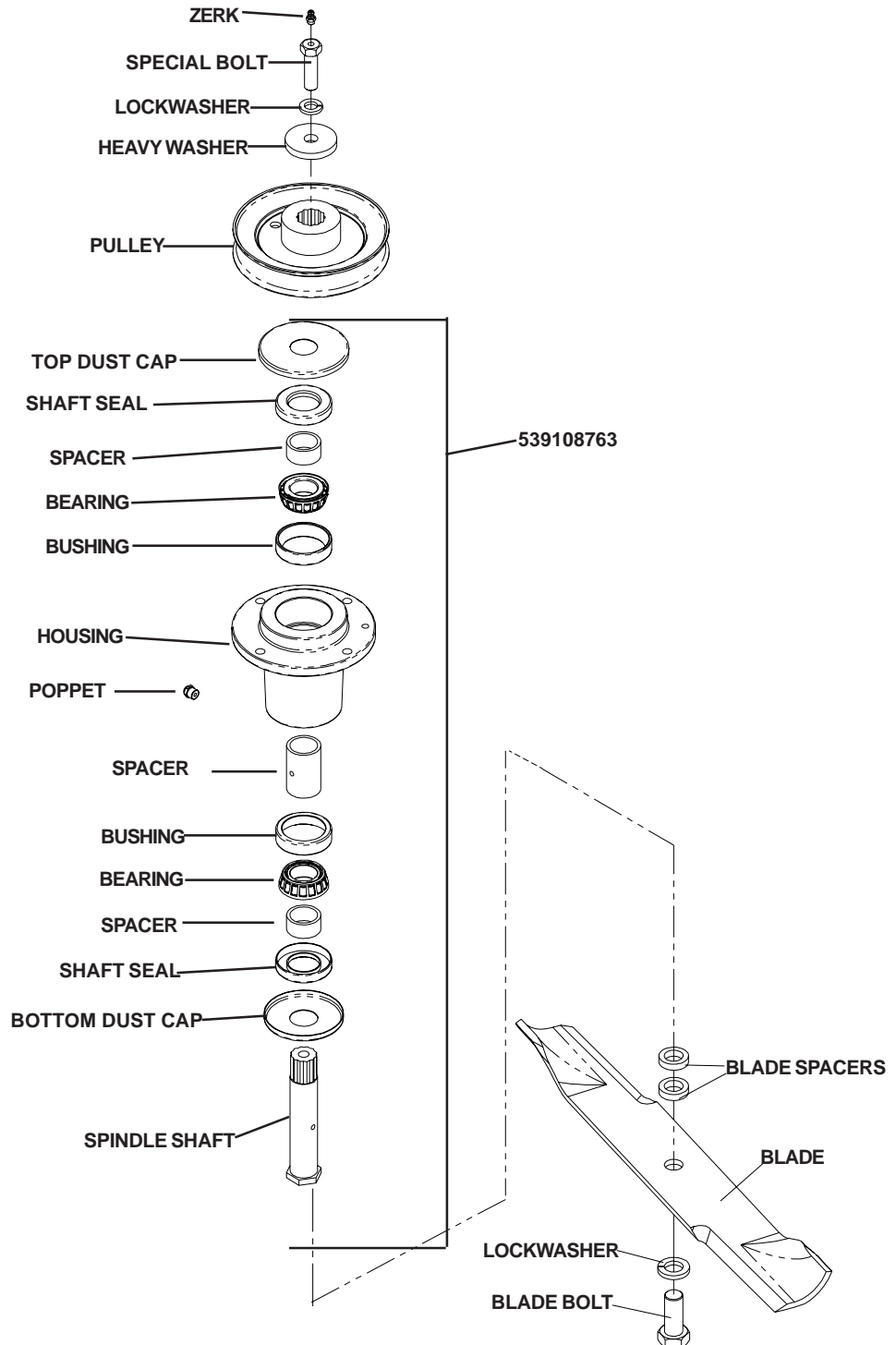
FIGURE 15

## MAINTENANCE

### CUTTER HOUSING SPINDLE ASSEMBLY

Grease housings once weekly or every 40 to 50 hours of use. Use a good synthetic grease. Pump grease in until a small amount purges from the poppet on the underside of the deck. Check the torque of the pulley bolt (45 ft/lbs) should be maintained.

#### SPINDLE ASSEMBLY



## MAINTENANCE

### WINTER STORAGE

To prepare your Yazoo/Kees mower for winter storage, perform the routine maintenance and necessary adjustments and record the part numbers of worn or broken parts so they may be ordered and replaced before the next mowing season. Use only authentic Yazoo/Kees replacement parts to insure proper fit and the safety of your mower is maintained.

Treat the fuel in the tank with a fuel stabilizer (such as STA-BIL). This will minimize the formation of fuel gum deposits during storage. Read and follow the mix ratio on the container. Run the engine for at least 10 minutes after adding the stabilizer to bring it into the carburetor.

**These few tips will help make your mower ready when needed for the next mowing season and insure many years of dependable service.**

# Maintenance Chart

Maintenance		Maintained Interval (hours)						
		Daily	25	50	100	200	250	500
Engine (4)								
	Check oil level	X						
	Change oil and filter (1)				X			
	Clean the air filter's (2)		X					
	Replace air filter's (2)				X			
	Check for fuel and oil leakage	X						
	Clean cooling flanges (2)				X			
	Check cooling air inlet	X						
	Replace fuel filter				X			
	Replace plugs				X			
Electrical								
	Check the safety system	X						
Lubricate								
	Deck idler arm		X					
	Caster swivels					X		
	Caster tires			X				
	Throttle cable			X				
	Choke cable			X				
	Cutter housings			X				
	Tracking Plate			X				
	Ground Speed Rollers			X				
General								
	Check bolts and nuts	X						
	Check cutting deck		X					
	Clean cutting deck (2)	X						
	Check tire pressure (15 psi)		X					
	Check belts				X			
	Check and adjust throttle cable				X			

## Notes:

1. Change engine oil and filter after first 50 hours and then every 100 hours.
2. During dusty or dry conditions cleaning and replacement should be more frequent.

## TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSES
Engine won't start	<ol style="list-style-type: none"> <li>1. Blade switch engaged.</li> <li>2. Thumb latches unlocked.</li> <li>3. Fuel valve closed.</li> <li>4. No fuel.</li> <li>5. Spark plug wires off.</li> <li>6. Bad spark plugs.</li> <li>7. Bad module.</li> <li>8. Fuse blown.</li> </ol>
Mower will not move or moves slowly or hard	<ol style="list-style-type: none"> <li>1. Brake/bypass lever in brake or bypass position</li> <li>2. Pump drive belt loose or off.</li> <li>4. IZT failure.</li> <li>5. brake/bypass lever mis-adjusted.</li> </ol>
Blades won't engage	<ol style="list-style-type: none"> <li>1. Blade belt off of pulleys.</li> <li>2. Blown fuse.</li> <li>3. Bad module.</li> </ol>
Uneven cut	<ol style="list-style-type: none"> <li>1. Tire pressure uneven.</li> <li>2. Blades bent (check tip to tip one blade thickness)</li> <li>3. Air foil of blade worn or bent.</li> </ol>
Cut is ragged	<ol style="list-style-type: none"> <li>1. Blades dull.</li> <li>2. Ground speed too fast.</li> <li>3. Grass accumulation under deck.</li> </ol>
Mower moves when in neutral position	<ol style="list-style-type: none"> <li>1. Motion control linkage out of adjustment (see adjustments).</li> </ol>
Mower pulls left or right	<ol style="list-style-type: none"> <li>1. Tire pressure uneven.</li> <li>2. Motion control linkage adjustment.</li> <li>3. Soft terrain.</li> <li>4. Slope too steep.</li> <li>5. Tracking not adjusted.</li> <li>6. Bypass is mis-adjusted on one side.</li> </ol>

**When a problem occurs, do not overlook the simple causes.**



***YAZOO / KEES***