

Early Bird Lawn Mower

Owner's Manual

This manual contains important safety instructions for the gasoline engine powered



When you call the help-line you will need to have the following information:

Date of Purchase: _____
Location of Purchase: _____
Serial # - Mower: _____
Serial # - Engine: _____
Serial # - Hydro Trans (L) _____
Serial # - Hydro Trans (R) _____

Mower and engine life are extended greatly by performing frequent lubrications, oil changes and regular maintenance. To protect your investment perform routine maintenance.

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The information and specifications included in this publication were in effect at the time of approval for printing.



This manual contains important safety instructions for Finish Mowers
READ SAFETY WARNINGS AND OPERATING INSTRUCTIONS CAREFULLY
SAVE THESE INSTRUCTIONS.

This owner's manual is considered a permanent part of the finish mower and should remain with the finish mower if resold.

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About the JADE-ZTS Mower Manual

Congratulations on the purchase of your new JADE-ZTS Mower . We at Jade Outdoor Power Equipment are confident that this mower will provide excellent performance, outstanding quality, and great durability when operated and maintained as directed in this manual.

1. This manual contains assembly, operating, safety, adjustment, maintenance, and troubleshooting instructions. BEFORE OPERATING YOUR LAWN MOWER, CAREFULLY READ THIS MANUAL IN ITS ENTIRITY.
2. This owner's manual is considered a permanent part of the mower. It must be available to all operators and/or person(s) servicing the mower. Should the mower be resold, this manual must remain with the mower.
3. All information, illustrations, and specifications contained in this manual were in effect at the time of the publication. Jade Outdoor Power Equipment reserves the right to add, delete or modify specifications and/or designs without notice.
4. If you ever have questions in regards to the operation, maintenance or safety of your mower, please contact the

**Safety Information**

JADE-ZTS lawn mowers are designed to give safe and dependable service if operated according to instructions. Read and understand this owner's manual before operating your lawn mower.

Emission Control System InformationThe U.S. and California Clean Air Acts

EPA and California regulations require all manufacturers to furnish written instructions describing the operation and maintenance of emission control systems. The following instructions and procedures must be followed in order to keep the emissions from your engine within the emission standards.

Safety Label Locations

Safety labels are located on your mower to warn you of potential hazards. Read them carefully. If a label comes off or becomes hard to read, contact your JADE Parts and Service, LLC for a replacement.

Operator Responsibility

It is the owner's responsibility that all operators and mechanics must be trained and read this manual before operating the mower as well as being physically able individuals. They should be instructed about safe operating and mechanical procedures. If they can not read or understand English, it is the owner's responsibility to explain all safety operating instructions. The owner or operator is responsible for accidents or injuries occurring to themselves, other people or property. Potential misfortunate incidents can be prevented by the owner/user.

Mower Inspection

For your safety, inspect the lawn mower before each use. Before you begin your inspection, be sure the following conditions are met: the lawn mower should be on a level surface, with the ignition switch off, the key removed, the break set, and the blades disengaged. Also, disconnect the spark plug wires from the spark plugs and ground them against the engine to prevent inadvertent starting.

1. Walk around the mower and look for any fluid spills or leaks on or underneath the mower. Remove any and all excessive debris, dirt, and fluids.

2. Look for signs of damage or excessive wear. Check the tightness of all nuts, bolts, pins, and screws. Tighten any that may be loose and replace any that are missing.
3. Be sure the safety interlock controls are operating properly so that the engine cannot be started unless the ground speed control lever is in neutral and the blades are disengaged.
4. Check the mower blades for any damage or abnormal wear. If replacement is required, replace in sets so that they are balanced.
5. Check the tire pressure on all four tires. Do not exceed the recommended maximum indicated on the tire.
6. Check the belts for wear and correct tension.
7. Check engine oil and air filters as recommended in the engine manufacturer's manual.

Children

1. Never allow children to operate or ride on mowers.
2. Always keep children at a safe distance when operating or servicing a mower
3. Make sure to always look out for children before you make turns or reverse.
4. Never let children or untrained people operate or service the equipment. Local regulations may

**WARNING**

WARNING! Do not use your Early Bird lawn mower to carry passengers. Keep bystanders, helpers, pets and children at a safe distance from the machine while it is in operation. Inspect the area where the equipment is to be used and remove all objects such as rocks, toys, and wires which can be thrown by the machine causing serious injury or death.

**WARNING**

Wear appropriate clothing including hard hat, safety glasses and hearing protection. Long hair, loose clothing or jewelry may get tangled in moving parts.

Preparation—Safety Precautions

1. 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 JADE.
2. Inspect the area where the equipment is to be used and remove all objects such as rocks, toys, and wire which can be thrown by the machine causing serious injury or death.
3. People, pets, and most importantly children must not be near the area being mowed. Do not operate the mower in their presence.
4. Never operate mower with damaged guards, shields or covers.
5. All users of the mower must be alert and pay attention to safety alerts, symbols, and safety signs.
6. Be sure to inspect mower before each use.
7. Make sure the safety switch is working properly and the tire pressure is normal
8. Check the controls and shields to make sure that they are functioning properly before operating. Do not operate if any are damaged or missing.
9. Never operate with discharge deflector raised, removed or altered, unless a grass catcher is being used.
10. Install, and maintain in working order, a spark arrester before using equipment on forest-covered, grass-covered, or brush-covered unimproved land.

Gasoline and other fuels—Safety Precautions

Use extra care when handling gasoline and other fuels as they are flammable and vapors can explode.

1. Only use gasoline approved containers for storage and keep out of reach from children.
2. Do not fill fuel tank completely full. Overfilling may result in fuel leakage. Leave a reasonable amount of space for fuel to expand.
3. If fuel is spilled, do not start the engine. Move the mower away from the area, wipe up the spill thoroughly and wait until fuel vapors have evaporated before starting engine.
4. Do not fill gasoline containers inside a vehicle or on a truck/trailer bed.
5. Never remove gas cap or add fuel when engine is running.
6. Avoid prolonged breathing of gasoline vapors.
7. Never refuel or drain the machine indoors.
8. Keep face away from nozzle and gas tank opening.
9. Keep gas and other fuels away from skin and eyes.
10. Never use the mouth to siphon gas.
11. Never refuel the mower until all moving parts on the mower have stopped.

12. Never smoke when handling fuels and stay away from an open flame where fumes can be ignited by a spark.
13. Always place gasoline containers on the ground away from your vehicles prior to filling.
14. Gasoline is harmful or fatal if swallowed.



DANGER: GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. Do not add fuel while the engine is running or is hot. Keep open flames, sparks, and heat away from the fuel and store fuel in containers specifically designed for that purpose. **ADD FUEL OUTDOORS ONLY. IF THE FUEL IS SPILLED, DO NOT START THE ENGINE.** Manually push the mower away from the spill and wipe up immediately.

**Equipment Operation—Safety Precautions**

1. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect. Carbon monoxide is odorless, tasteless, and can be fatal.
2. Mow only in daylight or under good lighting conditions.
3. Make sure the mower is in neutral, parking brake is engaged, blades are disengaged, and the operator is sitting in the proper position before attempting to start the engine.
4. Never operate on wet grass.
5. Watch for pedestrian or vehicular traffic when moving the mower while not in use (i.e., loading, unloading or transporting).
6. Never operate the mower with defective guards or shields, or without the safety devices securely mounted in place and functioning properly.
7. Be aware of discharge and never direct discharge of material toward bystanders nor allow anyone, especially children, near the mower during operation.
8. Do not change the governor settings or over speed the engine.
9. Always stop the engine when you leave the mower, even for a moment.
10. To help reduce fire hazard, keep the engine and the area around the engine free of grass, leaves or any other type of foreign material.
11. Beware of cutting edges. For safety always wear gloves when performing blade maintenance activities. Beware on multiple blade units since the rotation of one blade may cause the rotation of the other blade.
12. Do not operate the mower with the grass chute deflector in the raised position. Serious injury could occur.
13. If lightning is seen or thunder is heard in the operators vicinity, do not operate machine. Instead find shelter, as lightning may cause injury/death.
14. Never raise the mower deck while the blades are running.
15. Stop on a level ground, disengage drive, engage parking brake, and shut off engine before leaving operator's position for any reason including clearing grass catcher or

unclogging the chute.

16. Stop the mower immediately and inspect blades after striking objects or if an abnormal vibration occurs and discontinue use until repaired.
17. Keep hands and feet away from cutting unit. This product is capable of amputating hands and feet and throwing objects.
18. Be alert and slow down when making turns. Also look left, right, and behind before changing directions and reversing to be sure there is a clear path.
19. Disengage blades, slow down, and drive cautiously when crossing roads and side walks.
20. Never operate mower under the influence of alcohol and drugs.
21. Use care when loading or unloading the machine into a trailer or truck.
22. Use care when approaching blind corners, shrubs, trees, or other objects that may obstruct vision.
23. Always disengage blades when not in use.

24. Never listen to music with headphones/

**User Clothing:**

DO NOT operate the mower while wearing sandals, tennis shoes, sneakers, or shorts. Always wear long non-baggy pants. Wear high top leather work boots with thick, textured tread, soft-rubber soles at all times. Hard or smooth soled shoes are too slippery for a good footing on mower platform. NEVER wear loose fitting clothing which could get caught in moving parts. Wearing safety glasses, ear protection and safety shoes is advisable and required by



earphones while operating the mower.

Replacement Parts:

Use of parts other than specified parts supplied by JADE Manufacturing, Inc. may compromise the safe use of the mower and are not recommended.

**! WARNING****Operation on Slopes:**

DO NOT operate on steep slopes. Do not operate the mower on slopes steeper than you can feel secure about the traction of the tires and the stability of the mower. Do not operate the mower on slopes at all when the grass is wet. There is a danger of suddenly sliding sideways or down the hill. On moderate hills reduce speed and use caution. When operating on a slope, travel across the grade, whenever possible, not an up or down pattern. Reduce speed and exercise extreme caution on slopes and in sharp turns to prevent tipping or loss of control. Be especially cautious when changing direction on slopes.

The Wright Stander is capable of greater traction on slopes than typical riding mowers because of the benefits of a lower center of gravity. It is essential for you to know more about the handling characteristics of the mower so that you can enjoy more efficient mowing techniques and for increasing your safety.

The Wright Stander mower handles differently at different angles of attack on a slope. It is important to understand the following differences so that you can use or avoid using the mower at different angles for the best advantage. Be aware that if you do a turn on a slope you may go through all of the following orientations to a slope and must handle the mower accordingly. As you use the mower you will gain the technique to mow more lawn than ever before.

When pointing up a slope, the Stander has the most weight on the drive wheels and therefore the most traction at the tires. However, this is the angle that it has the most tendency to tip back ("pop a wheely"). This is the preferred angle for mowing small areas of steeper slopes. Recommendations for this angle:

- ☐ Lean as far forward as possible to add your weight to the front of the mower.
- ☐ Do not accelerate quickly to avoid "popping a wheely". Accelerate gently.
- ☐ If backing down the hill do not stop suddenly, but slow down gradually.

When pointing down a slope, the Stander has the least weight on the drive wheels and therefore the least traction at the tires. This is the angle that the mower has the most tendency to slide. However, this is the angle that it has the least tendency to tip back. Avoid this angle, as it has the least advantage for the Stander.

Recommendations for this angle:

Stretch your arms out straight while holding onto the handles and duck or squat slightly (6"-12") so that your rear end hangs out the back. This adds more of your body weight to the drive wheels for more traction.

Do not change speed suddenly to minimize the tendency of going into a slide. Accelerate and slow down gently. If you ever go into an uncontrolled slide while pointing down a slope the recommended procedure is to let go of the handles and jump off if necessary. Otherwise, control the mower gently and stay off slopes that tend to make the wheels slide at this orientation.

When crossing a slope sideways, the Stander has the average amount of weight on the drive wheels versus the front wheels, similar to level ground. However, this angle leaves the least weight on the higher side drive wheel, tending to make it slip. This is the preferred angle for mowing large areas of gentle slopes.

Recommendations for this angle:

Stand straight, as far as forward and backward are concerned, but lean sideways, toward the uphill side and stand on the uphill side of the foot platform. This adds weight to the higher side drive wheel and will allow you to mow more quickly across the slope without sliding.

Do not accelerate quickly to minimize the tendency of "popping a wheely". Accelerate Gently

Note: Excessively worn tire tread is dangerous. Replace tire(s) with less than 3/32" of any tread groove left. Use tires with the tread pattern recommended by Wright Mfg., Inc. only. Keep the tire pressure in the drive tires between 8 and 12 psi. Higher pressures will cause the tires to

! WARNING have less traction which will force you to go slower and with less safety.

Operation in Reverse:

Always keep a firm grip on the mower handles with both hands. Keep both feet firmly on the foot platform. Operate the mower very slowly, inching it backward until you become familiar with how the mower operates and always if in an awkward location or position. Never place

**! WARNING****Operation in Forward Direction:**

Always keep a firm grip on the mower handles with both hands. Operate the mower slowly until you become familiar with how the mower handles. Do not operate the mower faster than conditions allow. For example hills, wet or bumpy ground, dim light or high grass would all be conditions where you should work slower than normal. Never operate the mower at the highest speed unless you are on level, wide, open areas of clearly visible ground or transporting on paved areas. Speeding with any mower is dangerous, and so is traveling faster than conditions should permit on this mower. Sudden stops from excessive speed or falling off the mower may cause serious injury or death.

! WARNING**Operation During Zero-Radius Turns:**

During zero-radius turns (when one mower wheel rotates backwards while the other is moving forward) drive extra slowly to reduce the possibility of losing traction or control, or becoming dizzy. This will help prevent you from being thrown off of the mower. Be aware that if you do a turn on a slope you may go through all of

the orienta-

! WARNING**Fuel Safety:**

Handle gasoline with care - it is highly flammable. Do not smoke while handling gasoline. Use an approved gasoline container. Never remove the fuel cap or add gasoline to a running or hot engine or an engine that has not been allowed to cool for several minutes after running. Never fill the tank indoors and always clean up spilled gas. NEVER store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure

! WARNING**User Experience & Qualifications:**

This product is designed for use by physically fit, experienced, professional commercial mower operators who have a minimum of 160 hours of experience operating twelve horsepower and greater industrial mowers. Operators must be 18 years or older and weigh at least 120 lb. and no more than 350 lb. They must have read and understood this manual. DO NOT allow children to operate the mower. Do not allow adults to operate the mower without proper instruction mentioned above. Never allow passengers on the mower.

! WARNING**Owner/User Notice:**

The owner's/user's obligation is to instruct themselves and all potential users in the safe operation of this equipment and be sure they read and follow the instructions in this safety manual and other material provided by Wright Manufacturing, Inc. before using or allowing others to operate the equipment. Do not operate this unit unless you carefully read, understand and follow the assembly, installation, and safety instructions contained in this manual and the warning decals provided on the unit. Do not allow other persons to use this unit unless you make sure they carefully read, understand and follow these instructions. Never allow children

We really want you to be as safe as possible.

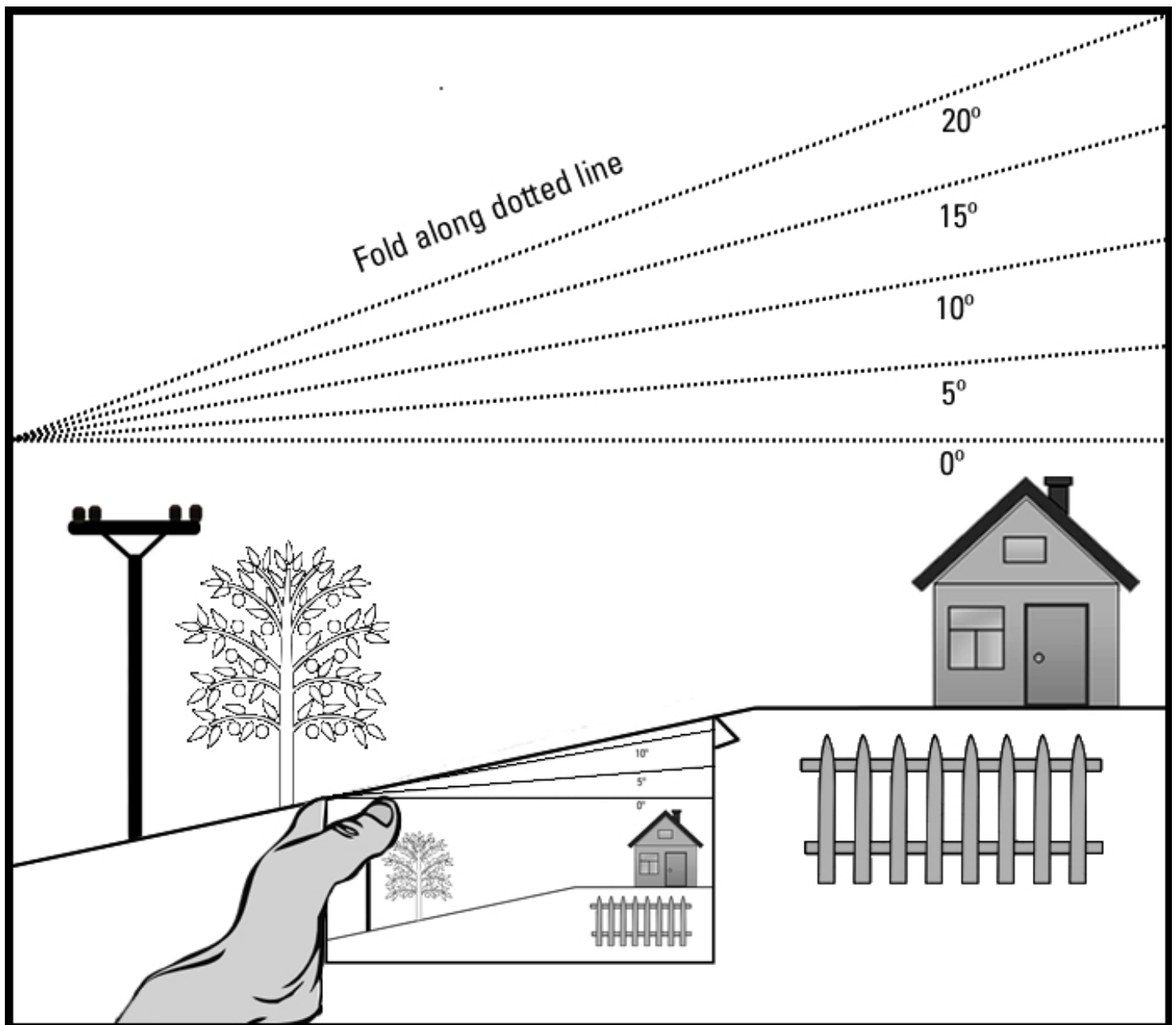
Please read the above again and again until you fully understand the methods to

promote the safest operation possible. REMEMBER - YOUR MOWER CAN BE ONLY

AS SAFE AS THE OPERATOR.

FAILURE TO FOLLOW SAFE OPERATING

PRACTICES MAY RESULT IN SERIOUS INJURY OR DEATH.

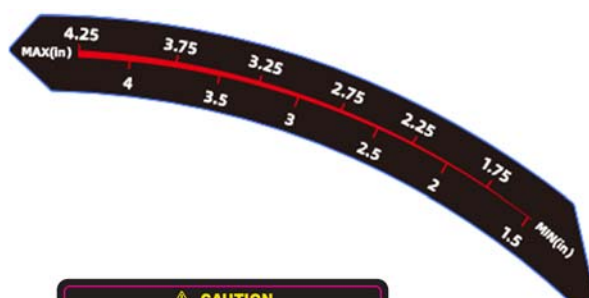


The maximum slope angle you can safely operate your mower on is **15 degrees**. Do not exceed 15 degrees with your mower.

1. Line up the side of this page with a vertical object to gauge the angle of the slope.
2. Fold this sheet along the dotted line and verify the slope is not in excess of 15 degrees.

Safety Decal Identification

The labels shown below are located on your mower to warn you of potential hazards and provide you with important safety information. If these decals become difficult to read or are missing from the mower, please contact JADE Parts & Service, LLC at 400-188-6691 or www.jadeequipments.com for a replacement.





	Models	
Feature	JADE-ZTS32	JADE-ZTS36
Product Type	Commercial, Stand On Zero-turn	Commercial, Stand On Zero-turn
Cutting Width	32-inch	36-inch
Engine	See engine manufacturer's manual	See engine manufacturer's manual
Engine Start	Electric	Electric
Transmission Type	Dual hydrostatic	Dual hydrostatic
Transmission Mfg	Hydro-Gear	Hydro-Gear
Mower Speeds	Infinitely variable	Infinitely variable
Deck Type	Floating, quick change	Floating, quick change
Cutting Height	1.5– 4.5 inches(½-inch increments)	1.5– 4.5 inches(½-inch increments)
Blade Engagement	Electromagnetic Clutch	Electromagnetic Clutch
Blade Tip Speed	18,750 ft/min	18,750 ft/min
Anti-Scalping Rollers	2 front/1 rear	2 front/1 rear
No. Blades/ Length	2, 16.1-inch blades	2, 18.1-inch blades
Control System	Dual Control Lever	Dual Control Lever
Fuel/Capacity	Gasoline/10L	Gasoline/10L
Rear Drive Tires	18-inch X 6.5-8inch turf tread	18-inch X 9.5-8inch turf tread
Front Caster Tires	13*5.0-6-inch smooth tread	13*5.0-6-inch smooth tread
Brake System	Internal hydraulic and mechanical park	Internal hydraulic and mechanical park
Weight	Approx. 280kg	Approx. 292kg
Length/Width/Height	1640mm(1488mm)*1156mm*1125mm	1640mm(1488mm)*1156mm*1125mm
LED Head Light	Standard	Standard
Cutter Belt Type	Premium B-section	Premium B-section
Forward speed	7.7mph(12.4kph)	7.7mph(12.4kph)
Reverse Speed	3.4mph(5.5kph)	3.4mph(5.5kph)
Engine Speed	3600rpm	3600rpm
Engine Power	24hp	24hp

	Models	
Feature	JADE-ZTS42	JADE-ZTS50
Product Type	Commercial, Stand On Zero-turn	Commercial, Stand On Zero-turn
Cutting Width	42-inch	50-inch
Engine	See engine manufacturer's manual	See engine manufacturer's manual
Engine Start	Electric	Electric
Transmission Type	Dual hydrostatic	Dual hydrostatic
Transmission Mfg	Hydro-Gear	Hydro-Gear
Mower Speeds	Infinitely variable	Infinitely variable
Deck Type	Floating, quick change	Floating, quick change
Cutting Height	1.5– 4.5inches(½-inch increments)	1.5– 4.5inches(½-inch increments)
Blade Engagement	Electromagnetic Clutch	Electromagnetic Clutch
Blade Tip Speed	18,750 ft/min	18,750 ft/min
Anti-Scalping Rollers	3 front/1 rear	3 front/1 rear
No. Blades/ Length	3, 15.74-inch blades	3, 17.2-inch blades
Control System	Dual Control Lever	Dual Control Lever
Fuel/Capacity	Gasoline/10L	Gasoline/10L
Rear Drive Tires	18-inch X 9.5-8inch turf tread	18-inch X 9.5-8inch turf tread
Front Caster Tires	13*5.0-6-inch smooth tread	13*5.0-6-inch smooth tread
Brake System	Internal hydraulic and mechanical park	Internal hydraulic and mechanical park
Weight	Approx. 300kg.	Approx. 320kg.
Length/Width/Height	1640mm*1295mm*1125mm	1640mm*1295mm*1125mm
LED Head Light	Standard	Standard
Cutter Belt Type	Premium B-section	Premium B-section
Forward speed	7.7mph(12.4kph)	7.7mph(12.4kph)
Reverse Speed	3.4mph(5.5kph)	3.4mph(5.5kph)
Engine Speed	3600rpm	3600rpm
Engine Power	25hp	25hp



Throughout this manual, instructions are given on the operation of your Early Bird mower. We recommend that while going through this manual, you have your mower available for quick and easy access in order to orient yourself with the controls, maintenance and orientation of different parts. Please read through the manual before operating.

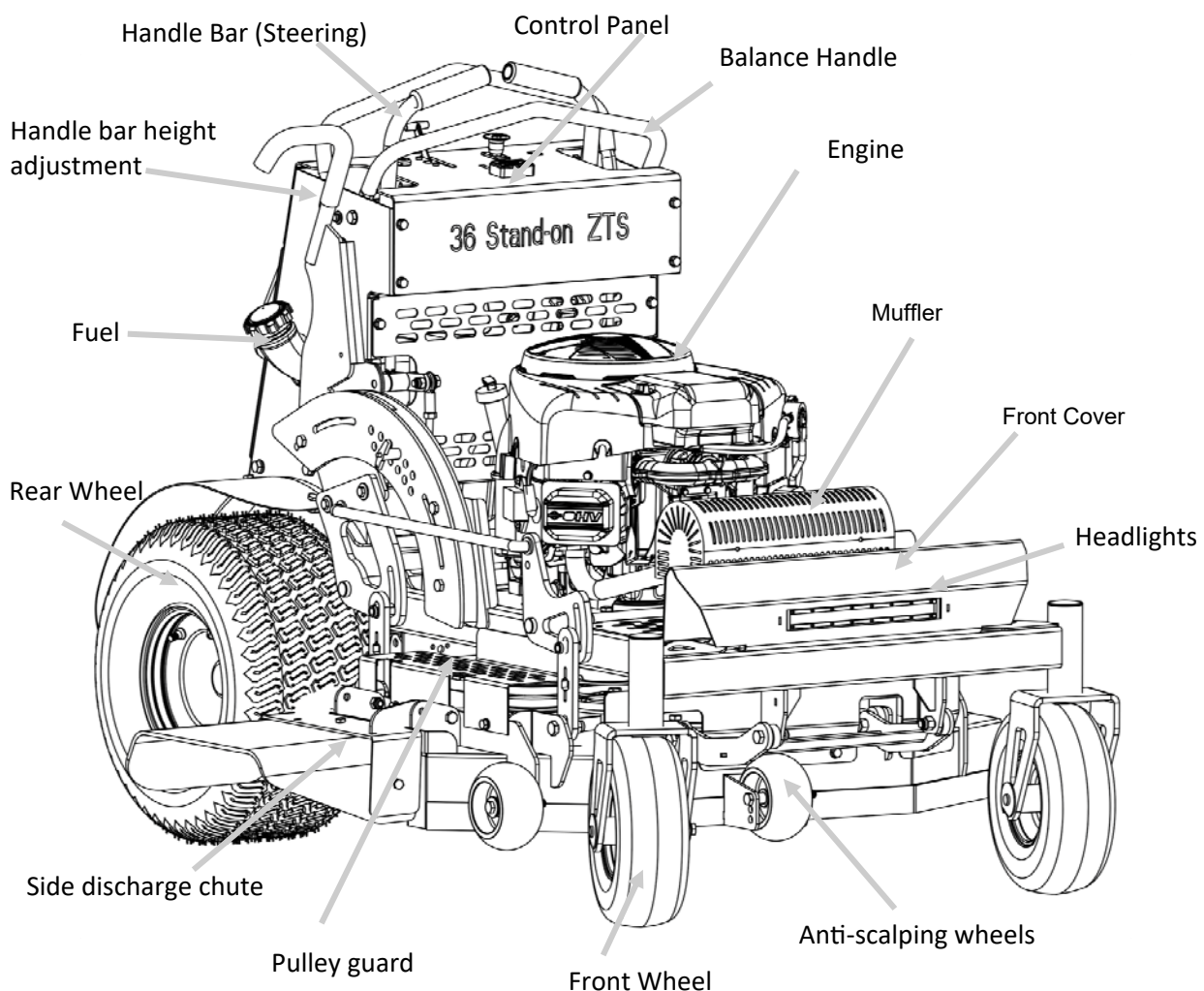
Control Panel

Below, you will find a diagram of the control panel. Please take the time to familiarize yourself with the mower



Lawn Mower Component Identification

(Some components may appear different than shown, depending on the model.)





If you are not completely familiar with the Safety Instruction Manual read it now before proceeding with the operation of the mower. REMEMBER THERE ARE CERTAIN PRECAUTIONS LISTED IN THAT SECTION THAT YOU MUST NOW TAKE BEFORE STARTING

Starting the Engine

DANGER: Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.

NOTE: Be sure to add fresh unleaded gasoline and fill the engine to the proper level with manufacturers recommended motor oil before starting your mower.

1. Make sure the shut off valve, located at the bottom of the tank, is in the ON position.
2. Make sure the brake is set and the 2 control handles are into their neutral position.
3. Make sure the blade engage switch lever is in the OFF position.
4. Pull CHOKE and set the throttle to its mid-point.
5. Turn the key clockwise to the START position and allow it to return to the ON position when the engine starts. (Do not engage the starter for more than 10 seconds at a time. This)
6. When the engine starts to run and the key returns to the ON position, push CHOKE off.



Notice: After starting the engine according to the engine manufacturer's recommendation, let the engine run for several minutes to get the hydraulic fluid circulating through the pumps, etc. and to allow the engine to warm up. Do not over-rev a cold engine.



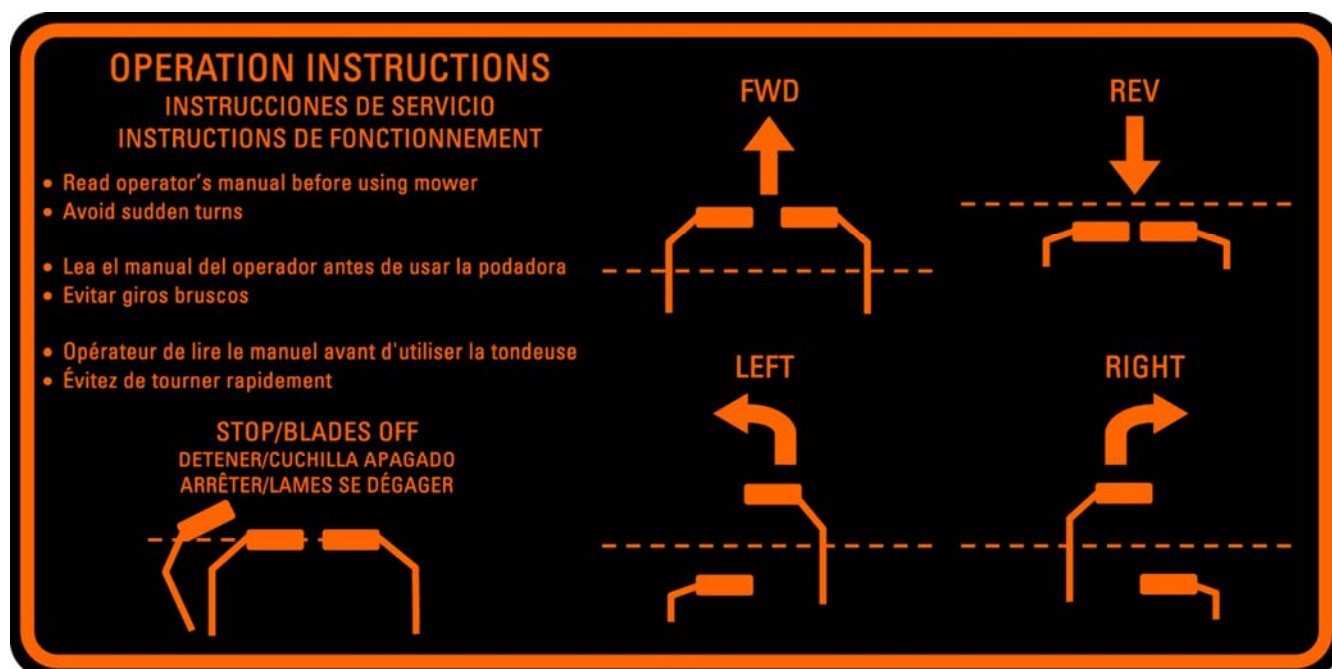
Operating the Mower

1. Make sure the brake has been moved to the OFF Position.
2. To drive the mower forward, push both handle bars forward away from the chest. The forward speed is directly proportional to the degree these handles are moved forward.
3. To turn the mower left, push to the right handle in front of the left handle or the left handle more towards the neutral position than the right handle.
4. To turn the mower right, perform the handle movements described in step 4 above with except with the opposite handle position.
5. To stop the forward motion of the mower, move both the handles to the center/neutral position.
6. To drive the mower backwards, pull both handle bars backwards toward the chest.
7. To turn backwards to the right or left, repeat the steps in 4 or 5 above except in the opposite direction.
8. To zero degree turn to the right, push the left handle forwards and the right handle backwards.
9. To zero degree turn to the left, push the right handle forwards and the left handle backwards.
10. When in the neutral position, the hydraulic system prevents the mower from moving easily. However, on a grade, the mower can move very slowly (with the engine off or running). Be sure to set the

WARNING

manual parking brake any time the mower is left unattended or is being transported.

The higher engine speed will make the controls much more responsive and the mower a lot quicker, so be careful if it is your first time. Now try moving the hand control levers, one at a time, very slightly, forward and backward. Gradually increase your speed until you are very acquainted with the operation of the hand controls and the mower's behavior. After gaining a good feel for how the mower handles gradually attempt higher engine speeds until familiar with operation at full throttle engine speed.



Changing the Height of Cut

Your mower is equipped with an easily adjustable floating deck, which can be adjusted for cut heights of 1.5 inches to 4.5 inches in ½-inch increments. The deck height adjuster is located on the right side of the mower.

Note: After mowing, remember to pull the deck to its highest position to avoid scraping and any other kind of damage to the blades or deck.

How To Stop and Park The Mower

Come to a complete stop. If the blades are on, turn them off using the switch on the instrument panel. *Make sure the control levers are in the exact neutral position.* Set the parking brake, reduce the engine speed to idle, shut off the ignition switch to stop the engine and remove the key from the ignition switch. The mower is now

close to the curb. Using the same technique lurch the right tire on to the curb. After both wheels are on top of the curb, turn the mower counterclockwise

and back up so the left caster wheel comes over and last should be the right caster wheel as the mower is twisting to the left (counterclockwise).

The technique works the best if you try not to drive backwards at a near 90 degree angle to the curb but get all of the wheels to go over while the mower is moving at least a 45 degree angle to the curb. To drive off a curb first, try driving up onto it to make sure the curb is not too high. If the curb is not too high, drive the right-front caster off first while driving toward the curb at a 45 degree angle (the curb should be to your right). Then, maintaining that 45 degree angle so the left caster goes over, then the right-rear wheel, then the left rear wheel.

How To Drive The Mower Over a Curb

To climb a curb, first see the Safety Instruction Manual section of this manual, especially the parts on:

- Initial Operating Safety Guidelines
- Operation In Reverse
- Operation In Forward Direction

Next, drive the mower in reverse, at a 45 degree angle to the curb, with the left side of the mower closest to the curb until you are within an inch or two of the left-rear tire hitting the curb. Stop and then gradually bump into the curb

with that tire until it is just on top of the curb. If the

tire slips even while lurching the mower into the curb then the curb is too high and you should use

ramps or find another way. The mower should still be at 45 degree angle to the curb. Now,



WARNING

Never drive straight on to or off of a curb.

Never drive straight on to or off of a curb. If you do the whole procedure at a very sharp angle it will tend to minimize the contact of the mower deck with the curb and you will be able to more safely control the mower.

How To Use The Mower On Varying Terrain

See the Safety Instruction Manual section of this manual, especially the parts on:

- .Initial Operating Safety Guidelines
- .Operation On Slopes
- .Operation In Reverse
- .Operation In Forward Direction
- .Operation During Zero-Radius Turns

Changing the Height of Cut

Your mower is equipped with an easily adjustable floating deck, which can be adjusted for cut heights of 1.5 inches to 4.5 inches in ½-inch increments. The deck height adjuster is located on the right side of the mower.

Note: After mowing, remember to pull the deck to its highest position to avoid scraping and any other kind of damage to the blades or deck.

How to Perform the Tracking and Neutral Adjustment

First ensure that the tire pressure is equal on both rear drive tires. Drive the mower on a level parking lot with engine at full throttle. Check that the mower drives in a straight line when both hand controls are held to the full speed position. If not, park the mower and **stop the engine**.

The adjustment is made by removing the "hair pin" from one or the other of the swivel ends at the lower ends of the control rods and screwing the swivel to either make the control rod longer or shorter. Before changing the length of the rods several facts are important to know:

In the *faster Speed/Sensitivity setting* neither rod should be shortened so much that at full speed it pulls its pump control lever (on the sides of the pumps) against the pump's internal stop. The pumps have an internal stop that is not designed to take this type of force and could eventually cause pump leakage or other damage to the pump. Therefore, to reach the maximum capable speed, the rods should be shortened one turn at a time until you can feel in the hand control that the internal stop has been contacted, then lengthen the rod one turn. You will feel the slight resistance (there is no need to start the engine or even replace the hair pin while checking this incrementally, just put the swivel in the hole in the lever and test it by squeezing the handle to full fast position). Remember, this procedure *does not apply* if the Speed/Sensitivity Adjustment is in the slower setting, otherwise you'll wind the swivels way up the rods and the mower will go fast but will lose most or all of its reverse capability and the gap between the stationary bar and the control levers becomes excessive when at the neutral position.

If the rod is made shorter it will speed up that side of the mower and if the rod is made longer it will slow down that side of the mower. So, if the mower is tracking to the left, either the left side needs to go faster (by shortening the rod) or the right side needs to go slower (by lengthening the rod). And, if the mower is tracking to the right either the right side needs to go faster (by shortening the rod) or the left side needs to go slower (by lengthening the rod). It is important that neither rod should be shortened too far as mentioned above.

The only reference point to limit the adjustment from becoming extremely off is the relative position of the pump internal stop and the stationary bar in the faster Speed/Sensitivity setting. Therefore, if everything is way off either because you are installing new parts or other reasons you should only use the faster Speed/Sensitivity setting to get the tracking to be accurate and then change to the slower speed range and tweak the tracking only one or two turns on either side.

Mowing



WARNING! Thoroughly inspect the area where you plan to use the mower. Look for items such as stones, sticks, wire, and other foreign objects. If struck by the mower, these and other objects may become projectiles that could lead to serious injury or death. Clear area of all debris.

Keep people and pets at a safe distance.

WARNING! Do not operate the mower with defective guards, shields, or without the safety devices securely in place.

Before beginning service, park the Early Bird lawn mower on a level surface, turn the blades off, turn the engine off, set the brake, take the key out of the switch, wait an adequate time to make certain no blades are turning, and remove spark plug wires from spark plugs.

Removing the Blades

Required tools: Two (2) 15/16" box end wrenches



CAUTION! Beware of the cutting edges on the blades. The rotation of one blade may cause the other blade(s) to rotate. Always wear work gloves when handling

1. Park the mower on level ground, set the brake and block the rear wheels to prevent accidental rollback.
2. Raise the front end of the mower and place on a jack stand.
3. Use one wrench to loosen nut A while holding bolt B with the other wrench. (See adjacent photo.)
4. Slide the blade bolt down through the mower deck and out.
5. To reinstall, insert the blade bolt through the cutting deck.
6. Install the blade spacers that were removed, back onto the blade bolt followed by the nut and tighten. (See figure below.)

IMPORTANT: The number of spacers should always be the same on each blade bolt. NEVER put the spacers below the blade and NEVER straighten or weld the blades.

IMPORTANT! The mower belts are adjusted to ensure the blades stop turning within 7 seconds of releasing the blade control lever. If you are making any belt adjustments whatsoever, for your safety and the safety of others around you, you must ensure the belts are re-adjusted to achieve this design specification.

Changing Battery

When disconnecting the battery make sure to disconnect the negative terminal first and the positive last. When reconnecting, connect the positive first and the negative last.



Charging Battery

Always charge battery in an open well ventilated area, away from sparks and flames. Unplug charger before connecting or disconnecting from battery and always wear protective clothing and use insulated tools.



DANGER: Battery electrolyte has sulfuric acid which can cause severe burns and is a deadly poison. Never drink and always avoid contact by wearing gloves and safety glasses when servicing the battery.



WARNING: Do not allow battery terminals to touch any metal parts of the mower when removing the battery. Never allow metal tools to short between the battery terminals and metal parts of the mower as this may cause sparks. Sparks can also cause the battery gasses to explode which can result in injury/death.

The Importance of Maintenance

Regular maintenance is essential to ensure your mower continues to deliver safe and high-quality performance.

To help you properly care for your mower, the following pages include a recommended maintenance schedule, routine inspection procedures, and simple maintenance procedures using basic hand tools. Maintenance is the responsibility of the owner and must be performed regularly. More difficult service tasks or tasks that require special tools are best handled by a recommended service technician or other qualified mechanic.

The maintenance schedule described on page 20 applies to mowers used under normal operating conditions. If you operate your mower under severe conditions, such as sustained prolonged use or high-temperature operations, or use it in unusually wet, dusty or rocky conditions, consult your servicing dealer for recommendations applicable to your individual needs and use.

Be sure to use genuine Early Bird mower replacement parts when servicing your mower to assure the best quality, safety and performance.

Need Help? Parts, Service and Technical Assistance
Call: 400-188-6691 www.jadeequipments.com.

Fuel



DANGER: Gasoline is highly flammable and explosive. Do not add fuel while the engine is running or is hot. Keep open flames, sparks, and heat away from the fuel and store fuel in containers specifically designed for that purpose. Add fuel outdoors only and if the fuel is spilled, do not start the engine. Manually push the mower away from the spill and wipe up immediately.

Refer to the Engine Owner's Manual for the type of fuel to use.

A fuel shut off valve is located on the bottom of the fuel tank. It is recommended that the fuel be shut off when transporting between job sites and when storing the mower for extended periods of time.



CAUTION

CAUTION! Before making any adjustments and/or servicing to your Early Bird mower, make sure the mower is on a level surface, with the ignition switch off, the key removed, the brake set, and the blades disengaged. Also, disconnect the spark plug wires from the spark plugs and ground them against the engine to prevent inadvertent starting.

If you are performing adjustments or maintenance after operating the mower, allow the unit to cool and always wear protective clothing.

Tire Pressure

Incorrect tire pressure may cause the mower to pull to one side and/or result in uneven cut. Use caution when filling the tires. NEVER exceed the recommended maximum tire pressure as stated on the tires.

Air Filter

Refer to the Engine Owner's Manual for the recommended maintenance.

Engine Oil

CHECK ENGINE OIL BEFORE EACH USE. Refer to the Engine Owner's Manual for the type of oil to use, oil change intervals, and the proper procedures to check and change oil.

Blades

Inspect blades on a daily basis for nicks, bends, and excessive wear. If the blades are worn, cracked, bent, or damaged, replace them before using the mower. Choose genuine Early Bird mower replacement blades to ensure quality and performance.

When sharpening the blades, sharpen only the cutting edges and try to maintain the original angle of the blade. Do not make the cutting edge razor sharp. Remove the same amount from each side of the blade so that balance is maintained.



CAUTION

CAUTION: Always wear work gloves when performing blade maintenance and beware of the cutting edges. Be sure the engine is off, the key removed, and the spark plug wires are disconnected from the spark plugs to prevent inadvertent starting.

Item	Procedure	Time Interval				
		Break-in (first 5 hrs)	Every 8 hrs (daily)	Every 40 hrs (weekly)	Every 100 hrs (Bi-weekly)	Every 200 hrs (monthly)
Belts	Inspect (adjust if needed)	X	X			
Blades	Inspect and/or Sharpen		X			
Engine Air Filter	Inspect (see Engine Owner's Manual)		X			
Engine Cooling Areas	Clean (see Engine Owner's Manual)		X			
Engine Oil	Check (see Engine Owner's Manual)	X	X			
	Change (see Engine Owner's Manual)					
Engine Oil Filter	Change (see Engine Owner's Manual)					
Engine Spark Plug	Inspect (see Engine Owner's Manual)				X	
Fuel Filter	Replace				X	
Fuel Line	Check				X	
Grease Fittings	Refer to page 18					
Hardware	Check for proper tightness	X		X		
Mower Main Frame	Remove debris from under belt cover		X			
Safety Interlock System	Check Operations and Switches		X			
Tires	Check Air Pressure			X		
Spindle/Blade Brakes			X			

Cleaning the Mower

It is recommended that the Early Bird lawn mower be cleaned on a daily basis. Excessive accumulation of dirt, debris, oil, etc. on cutting units, drives, mufflers, and engine may present a potential safety hazard.

Short Term Storage

- Let engine cool before storing and do not store near flame, high heat, and possible ignitions from sparks.
 - Always clean off all flammable material as well as grime and dirt before storage.
 - Never use a pressure washer and avoid drenching the control panel, motor, engine, and hydro pumps with water.
 - Wash with mild detergent and water only.
 - After washing the machine engage the engine at high and let the mower run for 5 minutes.
 - Shut off fuel for storing or transporting.
 - Carefully release pressure from components with stored energy.
 - Store mower only on the ground.
 - Do not drain fuel indoors or near a flame.
 - Use jack stands to support components when required.
 - Always park machine on level ground and set the parking brake when storing.
 - Store the machine in a clean and dry environment.
 - Always remove the key from the ignition.
 - Add a petroleum based conditioner in the gas tank and run for 5 minutes to distribute through mower.
-

Extended Storage

- Change air filter.
- Make sure all fuel is drained before storing.
- To ensure all fuel is drained from the mower, run the mower until it runs out of gas before storage.
- Check the spark plugs condition and pour two tablespoons of engine oil in the spark plug holes and leave the spark plugs off.
- Cover the machine when in storage.
- Remove Battery and clean terminals and cable connectors. Store battery in a cool dry place.
- Everything mentioned in short term storage should also be applied to extended storage.



Problem	Possible Causes	Solution
Engine will not start	<ol style="list-style-type: none"> 1. Key in the OFF position 2. Insufficient fuel in the tank 3. Air bubble in the fuel line 4. Fuel valve in OFF position 5. Choke not ON 6. Choke linkage out of adjustment 7. Low engine oil 8. Blade control in ON position 9. Loose spark plug wire 10. Fouled spark plug 11. Plugged or dirty air filter 12. Bad gasoline 13. Plugged or dirty fuel filter 14. Safety switches out of alignment or loose 15. Dead battery (electric start models) 	<ol style="list-style-type: none"> 1. Turn key to ON position 2. Add gasoline 3. Prime engine or shake bubble out 4. Turn valve ON 5. Turn choke ON 6. Refer to Engine Owner's Manual 7. Add engine oil 8. Push lever to OFF position 9. Tighten wire or connections 10. Clean or replace the plug 11. Clean or replace the air filter 12. Drain and replace with fresh gasoline 13. Replace the fuel filter 14. Adjust or tighten switches - read warnings! 15. Recharge or replace battery
Engine will not keep running/quits	<ol style="list-style-type: none"> 1. Water in the fuel 2. Loose safety switch 3. Fuel valve is OFF 4. Dirty fuel filter 5. Dirty air filter 6. Low engine oil 	<ol style="list-style-type: none"> 1. Drain and replace with fresh fuel 2. Adjust switch 3. Turn fuel valve ON 4. Replace fuel filter 5. Clean or replace air filter 6. Add engine oil
Engine stops when blades are engaged	<ol style="list-style-type: none"> 1. Loose safety switch 2. Belt tension too high 3. Blades jammed with foreign material 	<ol style="list-style-type: none"> 1. Adjust switch 2. Adjust belt 3. Remove foreign material
Blades do not turn	<ol style="list-style-type: none"> 1. Broken belt 2. Blade activation linkage out of adjustment. 	<ol style="list-style-type: none"> 1. Replace belt 2. Adjust linkage
Belts squeal when blades are engaged	<ol style="list-style-type: none"> 1. Excessive belt wear 	<ol style="list-style-type: none"> 1. Replace belt
Belts slip when blades are engaged	<ol style="list-style-type: none"> 1. Excessive belt wear 	<ol style="list-style-type: none"> 1. Replace belt



Problem	Possible Causes	Solution
Mower will not move forward or reverse	<ol style="list-style-type: none"> 1. Brake ON 2. Bypass levers pulled out 	<ol style="list-style-type: none"> 1. Release brake on control panel 2. Ensure bypass pins are retracted
Cannot move mower when the engine is off	<ol style="list-style-type: none"> 1. Bypass not engaged 	Pull left and right bypass handle and set them in slots in the chassis
Engine is overheating	<ol style="list-style-type: none"> 1. Dirt in the fuel line 2. Dirty air filter 3. Low engine oil 4. Fouled spark plug 5. Misuse of the mower 6. Dull blades 7. Spindle bearing failure 	<ol style="list-style-type: none"> 1. Replace fuel filter and flush tank 2. Clean or replace the air filter 3. Add engine oil 4. Replace spark plug 5. Mow slower, wait for grass to dry out 6. Sharpen cutting blades 7. Take in for service
Grass not cut smoothly or cleanly	<ol style="list-style-type: none"> 1. Dull blades 2. Mowing too fast for conditions 3. Grass is wet or bent over 4. Blade is bent 5. Tire pressure not equal 6. Deck is set at uneven heights 7. Blades are set upside down 8. Excessive grass and debris build up underneath the deck 	<ol style="list-style-type: none"> 1. Sharpen blades 2. Slow down while cutting 3. Let grass dry to stand up 4. Replace blade 5. Add air pressure to low tires 6. Set deck at equal heights 7. Take blades off and install correctly 8. Clean out debris
Mower always pulls to one side	<ol style="list-style-type: none"> 1. Controls out of adjustment 2. Transmission failure 	<ol style="list-style-type: none"> 1. Adjust controls 2. Take in for service



Products Covered by this Warranty	Length of Warranty: *(from the date of original retail purchase)		
	Residential	Commercial	Rental
Engine	Manufacturer's warranty	Manufacturer's warranty	Manufacturer's warranty
Transmission	Manufacturer's warranty	Manufacturer's warranty	Manufacturer's warranty
Mower frame	Lifetime (original owner only)	Lifetime (original owner only)	90 days
Belts, Tires, Battery	90 days	90 days	90 days
Attachments	1 yr limited	1 yr limited	30 day limited

*LENGTH OF WARRANTY: Batteries supplied with applicable products as standard, original equipment are covered by this warranty for a period of 90 days from the date of original retail product purchase. Consumable parts such as oil, spark plugs, filters, and blades are not covered by this warranty.

To Qualify for this Warranty

The product must be purchased from a dealer authorized by Jade Outdoor Power Equipment.,Ltd to sell those products. This warranty applies to first retail purchaser/owner during the applicable warranty time period. **SAVE YOUR PROOF OF PURCHASE RECEIPT. MUST HAVE PROOF OF PURCHASE TO OBTAIN WARRANTY.**

What JADE Outdoor Power Will Repair or Replace under Warranty

JADE will repair or replace, at its option, any part that is proven to be **defective in material or workmanship** under normal use during the applicable warranty time period subject to the exclusions stated herein. This warranty is void if the owner fails to follow the prescribed maintenance and operating procedures described in this manual. This specifically refers to ensuring routine lubrications and oil changes are made, that fuel stabilizer is used when the product is stored and that the product is not overloaded.

JADE has the right to recover warranty administration costs from the owner if the root cause of the malfunction is found to be other than defective material or workmanship. In particular, this warranty does not cover: contaminants in the fuel or oil; damage caused by not following the prescribed warnings and operating practices; failure to follow proper maintenance and storage procedures; and physical damage due to misuse, shipping, handling or storage.

Warranty repairs will be made without charge for parts and labor for the first year.

Anything replaced under warranty becomes the property of JADE. Parts replaced under warranty will be considered as part of the original product and any warranty on those parts will expire coincident with the original product warranty.

To Obtain Warranty Service

You must take the Early Bird product, accessory, replacement part, apparel or the power equipment on which the accessory or replacement part is installed, and proof of purchase, at your expense, to any Early Bird service location in the world, who is authorized to service that product, during the service location's normal business hours. If you are unable to obtain warranty service, or are dissatisfied with the warranty service you receive, take the following steps: First, contact the manager of the service center involved; normally this will resolve the problem. However, if you should require further assistance, write or call the JADE Parts & Service, LLC 400-188-6691

Exclusions

This warranty does not cover: normal wear, contaminants in the fuel or oil; damage as a result of use in an application for which the product was not designed; damage caused by incorporation or use of unsuitable attachments or parts, unauthorized alteration, or other misuse and neglect; damage caused by failure to follow the prescribed warnings, operating practices, proper maintenance and storage procedures; parts affected or damaged by accident and/or collision; damage due to shipping, handling, storage or any causes other than defects in material or workmanship of the product.

Disclaimer of Consequential Damage and Limitation of Implied Warranties

JADE disclaims any responsibility for loss of time or use of the product, transportation, commercial loss, or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written limited warranty.

THIS WARRANTY IS VOID IF THE MANUFACTURING DATE AND THE SERIAL NUMBER ON THE EQUIPMENT HAS BEEN REMOVED OR THE EQUIPMENT HAS BEEN MODIFIED.

Lawn Mower Electrical Schematic Diagram (Loncin 764cc)

