# Safety Instructions & Operators Manual



## Zero Turn Radius Mower



Congratulations for buying a *Country Clipper* product. Your *Country Clipper* Zero Turning Radius Riding Mower was designed and built to provide long and trouble free service. Keep in mind that it, like any other mechanical device, can be potentially dangerous if used improperly, and hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the equipment. Study this manual and pay special attention to the important Safety Precautions on pages 4-6. Following these instructions will help you continue to enjoy the trouble-free performance expected of the *Country Clipper* product.

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#### SAFETY

#### **ACCIDENT PATTERNS TO AVOID**

- I. CONTACT WITH THE ROTATING
  BLADE -- This accident usually happens when the operator is clearing the discharge chute of grass, (especially when the grass is wet), or when the operator adjusts the machine without turning it off and waiting for the blades to completely stop.
- II. PROPELLED OBJECTS -- Sticks, rocks, wires, and other objects can be propelled out through the discharge chute or from under the mower housing. Bystanders are particularly vulnerable.
- **III. GRASS CATCHER OR GUARD --** The mower shall not be operated without either the entire grass catcher or guard in place.
- IV. OVERTURNING -- This happens when riding mowers are used on steep slopes, embankments or hills. The operator in these cases can come in contact with the blades or sustain injuries during a fall.
- V. MOWER RUNNING OVER THE VICTIM

   This usually happens when a riding mower is driven in reverse. The accident victims are most often young children whom, unseen by the operator of the mower, were in the area being

mowed.

AT **COUNTRY CLIPPER**, WE SHARE YOUR DESIRE TO PROTECT YOURSELF, YOUR FAMILY, YOUR FRIENDS AND YOUR NEIGHBORS FROM ACCIDENTAL INJURY. OBSERVING AND ENFORCING THE FOLLOWING GUIDELINES WILL HELP TO INSURE THE SAFETY OF EVERYONE.

#### PLEASE BE CAREFUL!

# SAFETY INSTRUCTIONS AND RECOMMENDATIONS

- 1. PEOPLE WHO OPERATE, SERVICE, OR ARE OTHERWISE ASSOCIATED with the *Country Clipper* Zero Turning Radius Mower should be trained in its proper use and warned of its dangers. Before operating, adjusting, or servicing the *Country Clipper* Zero Turning Radius Mower they should read and understand this entire manual and the engine owner's manual.
- 2. AVOID CONTACT WITH MOVING
  PARTS. Keep hands and feet from
  under mowing deck and away from
  blades at all times. Turn engine (motor)
  off if you must unclog the chute.
- axold HILLS AND SLOPES. Use extreme caution when mowing up or down slopes. NEVER mow across the face of a slope. If a slope must be ascended, back up the slope; drive forward when descending. Reduce speed and use caution to start, stop and maneuver. To prevent loss of control on a slope avoid sharp turns, sudden changes in direction, and sudden stops and starts.
- 4. DISENGAGE POWER TO MOWER BEFORE BACKING UP. Do not mow in reverse unless ABSOLUTELY necessary and then only after turning around and observing the entire area behind the mower. Go slowly. Most "running over victim" accidents occur in reverse.
- 5. BEGINNING OPERATORS SHOULD LEARN HOW TO STEER the Country Clipper Zero Turning Radius Mower before attempting to mow. Start with slow engine speed and drive without the blades engaged in an open area until comfortable with the machine.
- 6. KNOW HOW TO STOP QUICKLY. Know the location and operation of every control, especially how to brake and how to disengage the mower blades.

- 7. DO NOT MOVE CONTROL LEVER(S) from forward position to reverse position rapidly. The speed and/or direction of travel is affected instantly by movement of the Control Lever(s).
- 8. DO NOT ALLOW CHILDREN TO OPERATE MOWER. Do not allow others who have not had instruction to operate mower.
- 9. ALWAYS TURN ENGINE OFF AND REMOVE KEY before leaving the mower to prevent children and inexperienced operators from starting the engine. Never leave the mower unattended with engine running. Always wait for all moving parts and all sounds to stop before leaving operator's seat.
- 10. WEAR STURDY, ROUGH-SOLED WORK SHOES AND CLOSE-FITTING SLACKS AND SHIRTS. Never operate mower in bare feet, sandals or sneakers.
- 11. KNOW THE AREA YOU ARE TO MOW. Watch for hidden danger such as rocks, roots, sticks, holes, bumps, and drop-offs, etc. Before mowing, pick up all debris in area to be mowed. Sharp and hard objects can be propelled at a high speed and can act like shrapnel. Walk through tall grass BEFORE MOWING to make sure there are no hidden dangers. Mow higher than desired in tall grass to expose any hidden objects and/or obstacles, clean the area, and then mow to the desired height.
- 12. NEVER REFUEL A MOWER
  INDOORS. Allow the engine time to
  cool before refueling. Unseen vapors
  may be ignited by a spark. Always clean
  up spilled gasoline. Never run the
  engine indoors in a garage or any other
  closed building. Allow engine to cool
  before storing in any enclosure. The
  engine exhaust and gasoline fumes are
  dangerous.
- 13. DISENGAGE BLADES BEFORE DRIVING ACROSS WALKS or projecting objects.
- 14. NEVER REMOVE THE FUEL CAP or add gasoline to a running or hot engine that has not been allowed to cool for

- several minutes after running. Always make sure the gas cap is in place.
- 15. NEVER CARRY PASSENGERS.
- 16. DO NOT SMOKE AROUND THE MOWER or the gasoline storage container. Gasoline fumes can easily ignite.
- 17. KEEP GASOLINE IN A WELL-VENTILATED AREA away from your living quarters and in tightly-capped safety cans. Never store mower with gasoline in the tank inside a building where fumes may reach open flame or spark.
- 18. DISENGAGE BLADES, STOP ENGINE AND REMOVE IGNITION KEY before any servicing. Be sure all moving parts and all sounds have stopped. Let engine cool and disconnect the spark plugs so the engine cannot start by accident. A SLIGHT ROTATION OF THE BLADES COULD START THE ENGINE.
- 19. KEEP ALL NUTS, BOLTS, AND SCREWS TIGHT to be sure equipment is in safe working condition, especially blade mounting bolts.
- 20. VEHICLE SHOULD BE STOPPED AND INSPECTED FOR DAMAGE after striking a foreign object and the damage should be repaired before restarting and operating the equipment. Stop immediately and check for damage or loose parts if mower should start vibrating.
- 21 KEEP SAFETY DEVICES AND GUARDS IN PLACE. If any of the safety switches become inoperable, have them repaired immediately.
- 22. DO NOT STEP OR STAND ON THE MOWER HOUSING. Step or stand only on the foot deck.
- 23. WATCH OUT FOR TRAFFIC near roadways and when crossing roads.
- 24. DO NOT USE MOWER WHEN GRASS IS WET OR SLIPPERY.
- 25. MOW ONLY DURING DAYLIGHT.

- 26. THIS MACHINE IS NOT MEANT FOR HIGHWAY OR STREET USE. It is not a recreational vehicle and it should not be operated as such.
- 27. ALWAYS DISENGAGE THE MOWER BLADE CLUTCH when transporting.
- 28. KEEP ALL SAFETY LABELS IN LEGIBLE CONDITION. Remove grease, dirt, grass, etc. that may cover safety labels. Replace any safety label that is missing or damaged.
- 29. WEAR PERSONAL PROTECTIVE EQUIPMENT. Eye, ear, feet and head protection is recommended.
- 30. ONLY USE COUNTRY CLIPPER APPROVED ACCESSORIES.
- 31. DO NOT CHANGE THE ENGINE GOVERNOR SETTING or over speed the engine.
- 32. BEWARE OF MOWER DISCHARGE DIRECTION and do not point it at anyone.
- 33. DO NOT OPERATE THE MOWER UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.
- 34. USE CARE WHEN LOADIING OR UNLOADING MACHINE INTO A TRAILER OR TRUCK.
- 35. USE CARE WHEN APPROACHING BLIND CORNERS, shrubs, trees, or other objects that may obscure vision.
- 36. CLEAN ALL GRASS AND DEBRIS FROM MACHINE TO PREVENT FIRES. Remove spilled oil or gasoline.
- 37. KEEP HANDS AND FEET AWAY
  FROM MOVING PARTS. If possible do
  not make adjustments with the engine
  running.
- 38. NEVER MOW WHEN OTHER PEOPLE OR PETS ARE IN THE AREA.
- 39. CAREFULLY RELEASE PRESSURE FROM COMPONENTS WITH STORED ENERGY.

- 40. USE CARE WHEN REPLACING BLADES. Wrap the blade(s) or wear gloves, and use caution when servicing them. Only replace blade(s). Never straighten or weld blade(s).
- 41. USE JACKSTANDS TO SUPPORT COMPONENTS when required.

#### SAFETY INTERLOCK SYSTEM

Your *Country Clipper* Zero Turning Radius Mower is equipped with switches interlocked for your safety.

ON JOYSTICK MODELS GROUND DRIVE NEUTRAL IS WHEN THE JOYSTICK (CONTROL LEVER) IS IN THE "DOWN" POSITION.

ON TWINSTICK MODELS GROUND DRIVE NEUTRAL IS WHEN BOTH CONTROL LEVERS ARE IN THE "OUT" POSITION.

- 1. The mower blades must be disengaged before engine will start.
- The Control Lever(s) must be in the neutral position before the engine will start.
- 3. The engine will stop if the mower blade clutch is engaged when the operator leaves the driver's seat.
- 4. The engine will stop if the Control Lever(s) are not in the neutral position when the operator leaves the driver's seat.
- The engine will stop if the brake is "SET" and the Control Lever(s) are not in the neutral position.
- **6.** The engine will stop if the brake is "**SET**" and the mower blade clutch is engaged.

DO NOT OPERATE MOWER IF SAFETY SWITCHES AND GUARDS ARE NOT OPERATING PROPERLY

#### START UP AND OPERATION

#### **CHECKLIST BEFORE OPERATION**

1. Make sure fuel tank is full. Use regular unleaded gasoline (see engine owner's manual for more details).



## **WARNING**



HANDLE GASOLINE WITH CARE -- IT IS HIGHLY FLAMMABLE. DO NOT SMOKE. ENGINE SHOULD BE OFF AND COOL. USE APPROVED GAS CONTAINER. NEVER FILL TANK INDOORS. WIPE UP ANY SPILLS. REPLACE CAP TIGHTLY.

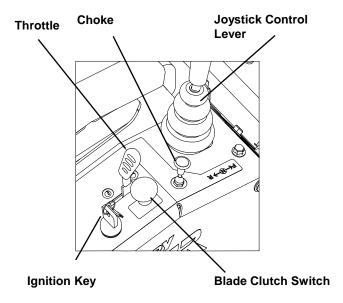
- 2. Make sure dirt and foreign matter is kept out of gas tank. Use a clean funnel and gas can.
- **3.** Do not mix oil with gasoline.
- 4. Do not use white, high test or premium gasoline. Do not use de-icers, carburetor cleaners, or other such additives.
- 5. Check the crankcase oil level. Make sure the engine is off. The mower should be parked on a level area. Do not overfill. (See your engine manual for more detailed instruction.)
- **6.** Check battery fluid level.
- **7.** Inspect V-belts.
- **8.** Check tire pressure:
- **9.** Make sure underside of mower deck is free of grass.
- **10.** Make sure mower blades are sharp and secured tightly.
- **11.** Clean the air intake screen on the engine if necessary.
- 12. Perform any other maintenance as it becomes necessary. (See the "Maintenance" section of this manual.)

IMPORTANT: Before cutting grass, clutch must be broken-in as follows: With engine at full RPM engage deck until blades come to full speed and then disengage until blades come to a complete stop.

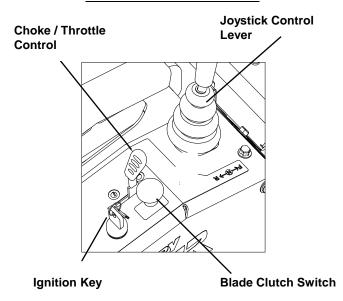
Repeat 10 times to "break-in" the clutch properly.

# CONTROL LOCATIONS JOYSTICK MODELS

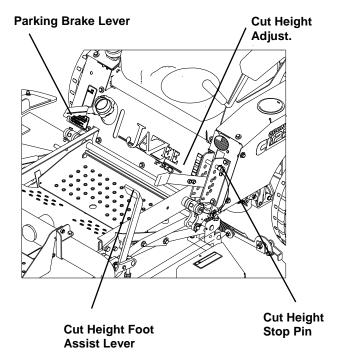
#### TWIN CYLINDER ENGINE



#### SINGLE CYLINDER ENGINE



#### **CONTROL LOCATIONS (CONT.)**





## **WARNING**



AVOID INHALING EXHAUST FUMES!
CARBON MONOXIDE GAS IS COLORLESS,
ODORLESS AND CAN CAUSE
UNCONSCIOUSNESS AND IS POTENTIALLY
LETHAL. DO NOT RUN LAWN MOWER IN
GARAGE OR OTHER CONFINED AREAS.

# OPERATION JOYSTICK MODELS

- 1. MOVE JOYSTICK CONTROL LEVER to neutral "DOWN" position.
- 2. SET PARKING BRAKE. Pull up to set.
- 3. DISENGAGE MOWER BLADE CLUTCH by moving clutch switch to "OFF" position.
- **4.** PULL ENGINE CHOKE CONTROL to full position for cold starts on twin cylinder models.
- 5. SET ENGINE THROTTLE TO 1/2
  THROTTLE on twin cylinder models.
  PUSH ENGINE CHOKE/THROTTLE
  CONTROL to full position for cold starts
  on single cylinder models.

- TURN IGNITION KEY to "START" position and release to "RUN" as soon as engine starts. NOTE: Prolonged cranking will damage starter motor and shorten the battery life
- 7. ADJUST ENGINE THROTTLE AND CHOKE for desired engine smoothness and speed. NOTE: When mowing, always run engine at full throttle.
- **8.** RELEASE PARKING BRAKE. Push brake lever down to release.

IMPORTANT: Until the operator is familiar with the *Country Clipper* Zero Turning Radius Mower, he/she should follow these recommendations: Disengage the mower blades. Go very slowly until thoroughly familiar with the machine. Keep away from fences, buildings, and other obstructions. Move the Joystick Control Lever smoothly and slowly. Practice until operation is smooth and efficient.

#### 9. TO DRIVE:

- **A.** Move the Joystick Control Lever to the "UP" position.
- B. Move the Joystick Control Lever forward to move forward. Increasing forward movement of the Joystick Control Lever will increase the speed of travel.
- **C.** To reverse the direction, pull the Joystick Control Lever slightly back.
- **D.** To turn, move the Joystick Control Lever toward the direction you want to turn.
- E. To turn on a zero radius axis, go slowly and move the Joystick Control Lever to the side you wish to turn and slightly to the rear at the same time.



## **CAUTION**



FOR SMOOTH, SAFE OPERATION, MOVE THE JOYSTICK CONTROL LEVER IN A GENTLE, SLOW MOTION. NEVER PULL OR PUSH THE JOYSTICK CONTROL LEVER RAPIDLY, ESPECIALLY ON GRADES.

- 10. BRAKING: To brake mower, gently move the Joystick Control Lever in the direction opposite to travel. If the parking brake is engaged with the Joystick Control Lever in the "UP" position the engine will stop.
- 11. CUTTING HEIGHT ADJUSTMENT: With the Cut Height Adjustment Lever latched into the top cut height latch. Insert Cut Height Stop Pin (depress end button on pin to unlock) to desired cutting height. Pull Cut Height Adjustment Lever rearward and then to the left to clear top cut height latch. Lower Cut Height Adjustment Lever until it rests on Cut Height Stop Pin. NOTE: Pushing on the Cut Height Foot Assist Lever will make the Cut Height Adjustment Lever easier to operate.
- 12. ENGAGE MOWER BLADE CLUTCH: Set the Blade Clutch Switch to the "ON" position. The engine will not start if the blade clutch is engaged. If the operator is not in the seat, the engine will stop if the clutch is engaged



## **CAUTION**

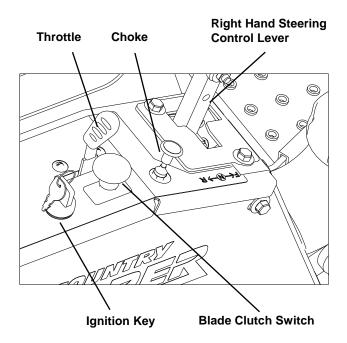


AVOID HILL AND SLOPES. USE EXTREME CAUTION WHEN MOWING UP OR DOWN SLOPES. NEVER MOW ACROSS THE FACE OF A SLOPE. IF A SLOPE MUST BE ASCENDED, BACK UP THE SLOPE; DRIVE FORWARD WHEN DESCENDING.

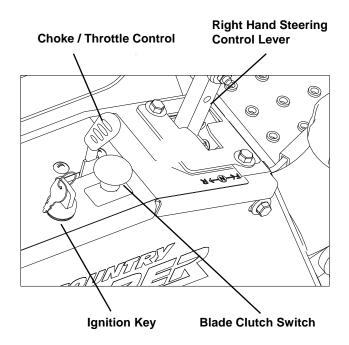
- **13.** TO STOP:
  - A. Move Joystick Control Lever to neutral position and then to the "DOWN" position.
  - **B.** Disengage the mower blade clutch by moving the clutch to the "OFF" position.
  - **C.** Set the parking brake.
  - **D.** Turn ignition key to "OFF" position.
  - E. Remove the key and wait for all movement and sound to cease before dismounting.

# CONTROL LOCATIONS TWINSTICK MODELS

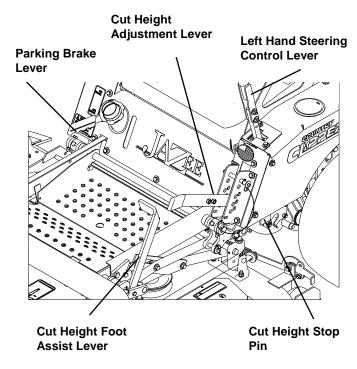
#### TWIN CYLINDER ENGINE



#### SINGLE CYLINDER ENGINE



#### **CONTROL LOCATIONS (CONT.)**





## **WARNING**



AVOID INHALING EXHAUST FUMES --CARBON MONOXIDE GAS IS COLORLESS AND ODORLESS, AND CAN CAUSE UNCONSCIOUSNESS, AND IS POTENTIALLY LETHAL. DO NOT RUN LAWN MOWER IN GARAGE OR OTHER CONFINED AREA.

# OPERATION TWINSTICK MODELS

- 1. MOVE STEERING CONTROL LEVERS TO neutral "OUT" position.
- 2. SET PARKING BRAKE. Pull up to set.
- **3.** DISENGAGE MOWER BLADE CLUTCH by moving clutch switch to "OFF" position.
- PULL ENGINE CHOKE CONTROL to full position for cold starts on twin cylinder models.
- 5. SET ENGINE THROTTLE TO 1/2 THROTTLE on twin cylinder models. PULL ENGINE CHOKE/THROTTLE CONTROL to full position for cold starts on single cylinder models.

- 6. TURN IGNITION KEY to "START" position and release to "RUN" as soon as engine starts. NOTE: Prolonged cranking will damage starter motor and shorten the battery life.
- ADJUST ENGINE THROTTLE AND CHOKE for desired engine smoothness and speed. NOTE: When mowing, always run engine at full throttle.
- **8.** RELEASE PARKING BRAKE. Push brake lever down to release.

IMPORTANT: Until the operator is familiar with the Zero Turning Radius Mower, he/she should follow these recommendations. Disengage the mower blades. Go very slowly until thoroughly familiar with the machine. Keep away from fences, buildings, and other obstructions. Move the Steering Control Levers smoothly and slowly. Practice until operation is smooth and efficient.

#### 9. TO DRIVE:

- **A.** Move the Steering Control Levers to the "IN" position.
- **B.** Move the Steering Control Levers forward to move forward. Increasing forward movement of the Steering Control Levers will increase the speed of travel.
- **C.** To reverse the direction, pull the Steering Control Levers slightly back.
- **D.** To turn, move one Steering Control Lever slightly ahead of the other.
- E. To turn on a zero radius axis, go slowly and move one Steering Control Lever forward and one Steering Control Lever rearward. (For a right hand turn the left hand Steering Control Lever will be ahead of the right hand Steering Control. For a left hand turn the right hand Steering control will be ahead of the left hand Steering Control.)



## **CAUTION**



FOR SMOOTH, SAFE OPERATION, MOVE THE STEERING CONTROL LEVER(S) IN A GENTLE, SLOW MOTION. NEVER PULL OR PUSH THE STEERING CONTROL LEVER(S) RAPIDLY, ESPECIALLY ON GRADES.

- 10. BRAKING: To brake mower, gently move the Steering Control Levers in the direction opposite to travel. If the parking brake is engaged with the Steering Control Lever(s) in the "IN" position the engine will stop.
- 11. CUTTING HEIGHT ADJUSTMENT: With the Cut Height Adjustment Lever latched into the top cut height latch. Insert Cut Height Stop Pin to desired cutting height. Pull Cut Height Adjustment Lever rearward and then to the left to clear top cut height latch. Lower Cut Height Adjustment Lever until it rests on Cut Height Stop Pin. NOTE: Pushing on the Cut Height Foot Assist Lever will make the Cut Height Adjustment Lever easier to operate.
- **12.** ENGAGE MOWER BLADE CLUTCH: Set the Blade Clutch Switch to the "ON" position. The engine will not start if the blade clutch is engaged. If the operator is not in the seat, the engine will stop if the clutch is engaged.

## A

## **CAUTION**



AVOID HILL AND SLOPES. USE EXTREME CAUTION WHEN MOWING UP OR DOWN SLOPES. NEVER MOW ACROSS THE FACE OF A SLOPE. IF A SLOPE MUST BE ASCENDED, BACK UP THE SLOPE; DRIVE FORWARD WHEN DESCENDING.

#### **13.** TO STOP:

- **A.** Move Steering Control Levers to neutral position and then to the "OUT" position.
- **B.** Disengage the mower blade clutch by moving the clutch to the "OFF" position.
- C. Set the parking brake.
- **D.** Turn ignition key to "OFF" position.
- E. Remove the key and wait for all movement and sounds to cease before dismounting.



## **CAUTION**



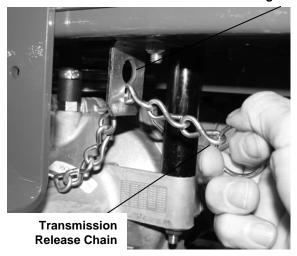
WHEN LEAVING THE MOWER
UNATTENDED, ALWAYS REMOVE THE KEY
AND SET THE PARKING BRAKE, EVEN IF
JUST FOR A FEW MOMENTS. HELP
PROTECT CHILDREN AND OTHER
UNAUTHORIZED PERSONS FROM
ACCIDENTS.

14. TO FREE WHEEL MACHINE: UNLOCK TRANSMISSION: Pull the Transmission Release Chains out away from the Hydrostatic Drive Axle and then down

into the retaining slot (each side must individually be pulled out and down into the retaining slot). To re-engage the transmissions push the Transmission Release Chains out of the retaining slot.

On Jazee mowers the Transmission Release Chains are located on the front side of the Hydrostatic Drive Axles and below the Engine Mounting Plate. On Jazee Pro mowers the Transmission Release Chains are located on the rear side of the Hydrostatic Drive Axles and below the Engine Mounting Plate.

**Retaining Slot** 



NOTE: The tractor should never be pulled at more than 2 miles per hour or for any appreciable distance.



## **CAUTION**



NEVER OPERATE MOWER WITHOUT DISCHARGE CHUTE IN PLACE.

#### MOWING RECOMMENDATIONS

- 1. Keep mower blades sharp.
- 2. Make sure deck and discharge are clean.



## **CAUTION**



TURN ENGINE OFF AND WAIT FOR ALL MOVING PARTS TO STOP BEFORE CLEANING DISCHARGE CHUTE.

3. When mowing tall grass, make two passes. Mow off ½ of the desired cut on the first pass, and then the desired

height the second pass. Check for hidden dangers.

- **4.** Go slowly for trimming.
- Always cut grass with the engine at full throttle speed. This "ENGINE" speed allows the cutting blades to operate at

- optimum cutting speed. Control ground speed with the Control Lever(s).
- 6. Vary ground speed to suit conditions (i.e. go slower in tall thick grass, on hills, wet conditions, etc.).

#### **MAINTENANCE**



## **CAUTION**



BEFORE PERFORMING ANY MAINTENANCE, TURN OFF ENGINE
REMOVE KEY AND DISCONNECT SPARK PLUGS. USE EXTREME CARE WHEN WORKING ON
MACHINERY. DO NOT WEAR WATCHES OR JEWELRY. DO NOT WEAR LOOSE FITTING
CLOTHES, AND OBSERVE ALL COMMON SAFETY PRACTICES WITH TOOLS.

#### MAINTENANCE SCHEDULE

SERVICE Check crankcase oil level	<b>WHEN</b> before each use
Clean grass from Hydrostatic Transmission fins and cooling fans	before each use
Check air intake screen	after each use
Clean grass under deck	after each use
Check tire pressure	- every 10 hours
Check battery fluid	- every 10 hours
Sharpen mower blades	- every 10 hours
Clean air filter pre-cleaner element	- every 25 hours
Check drive belts(2	- every 50 hours 20 hours break-in)
Service Air Cleaner Filter Element	every 100 hours
Change engine crankcase oiloil filter	100 hours 200 hours
Change Hydrostatic Transmission oil (+ oil filter – Jazee Pro, Pro DXL)(10	400 hours 0 hours break-in)
Replace air filter element annu	ally or 500 hours
Check spark plugs annu	ually or 500 hours
Service battery annu	

Replace Safety decals when illegible. Write factory for free replacement.

#### MAINTENANCE INSTRUCTIONS

#### 1. ENGINE:

For complete maintenance and operating information for your engine, please refer to your engine operating and maintenance instructions furnished by the engine manufacturer and included in your *Country Clipper* Zero Turning Radius Mower information packet.

NOTE: Air intake screen must be kept clean. If plugged, engine may be seriously damaged by over heating.

#### 2. BATTERY:



### CAUTION



BATTERY ELECTROLYTE IS A POISONOUS
AND CORROSIVE SULFURIC ACID
SOLUTION. AVOID SPILLING ON SKIN,
EYES, AND CLOTHING.

Keep the electrolyte level above the plates in each cell by adding distilled water as it becomes necessary. Add water just before operating the mower to mix the water with the solution. Be careful not to overfill the battery -- the electrolyte solution is corrosive and can cause damage to surrounding metal parts if it should spill. When taking the battery out of the mower for servicing, make sure to connect the cables to the battery exactly as they were prior to removal. Always disconnect the ground ( - ) wire <u>first</u> and always reconnect the ground ( - ) wire <u>last</u>.

Keep the battery clean. Remove the corrosion around the battery terminals by applying a solution of one part baking soda to four parts water. Coat all exposed terminal surfaces with a light layer of grease or petroleum jelly to prevent corrosion.

NOTE: At temperatures below 32 degrees F (0 degrees C) the full charge state must be maintained to prevent cell electrolyte from freezing and causing permanent battery damage.

#### TIRES:

Correct tire pressure is essential for efficient operation of the mower. Check tire pressure as requested in the maintenance schedule. Inflate tires to the pressures listed below:

Model	Front tires	Rear tires
All	12 psi	12 psi
Models	·	

Lug nuts should be torqued to 75 ft/lbs and checked regularly for tightness.

#### 4. MOWER BLADES:

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

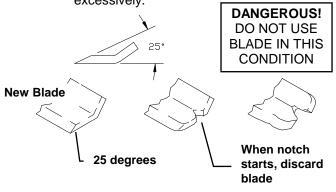


## **CAUTION**



STOP ENGINE, REMOVE IGNITION KEY AND SPARK PLUGS FOR SAFETY.

- Remove bolt and blade washer mounting blade on shaft. Remove blade
- **B.** Blades should be discarded when worn excessively.



- **C.** Sharpen blades with a hand file, electric grinder or blade sharpener. Wear gloves and eye protection when sharpening. Grind blade at original 25 degree bevel.
- D. Check balance of blade by positioning the blade on a nail or blade balance pedestal. Grind the blade on the end that is heavier until both sides balance.
- E. Install blade, blade washer and bolt. Make sure to tighten bolt to 100 ft-lbs.

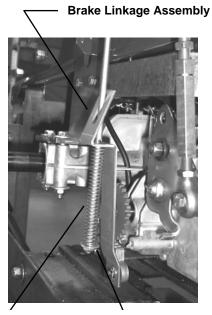
#### 5. V-BELTS:

All belts should be checked every 50 hours. Replace any belts found to be in poor condition. All belts are equipped with spring loaded belt tighteners and do not require tightening adjustments.

#### 6. LUBRICATION:

**A.** Engine: Follow engine manufacturer's recommendation.

# 7. PARKING BRAKE ADJUSTMENT FOR JAZEE (SR225) MOWERS:



Brake Adjustment Spring

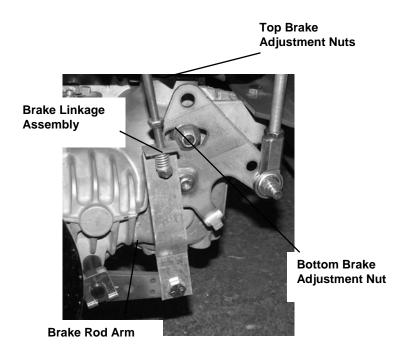
**Brake Adjustment Nut** 

- **A.** Move Parking Brake Lever to the "OFF" position.
- **B.** Tighten the Brake Adjustment Nut until the Brake Adjustment Spring just begins to collapse on the Brake Linkage Assembly.
- C. Repeat for the other side

NOTE: With the Brake Lever in the "OFF" position the teeth of the brake disk mechanism should not be engaged.

# 8. PARKING BRAKE ADJUSTMENT FOR JAZEE PRO (SR375) MOWERS:

- **A.** Move Parking Brake Lever to the "OFF" position.
- **B.** Adjust the top Adjustment Nut down or up so that the Brake Rod Arm is fully extended downward.
- **C.** Move Parking Brake Lever to the "ON" position.
- **D.** Adjust the Bottom Adjustment Nut so that the compression spring is compressed to 5/8".
- E. Repeat for the other side



# JOYSTICK CONTROL LEVER NEUTRAL ADJUSTMENT:

With the engine running, if the machine travels in either direction when the Joystick Control Lever is in the neutral "DOWN" position, stop the engine, elevate the rear wheels clear of the ground and adjust as follows:

#### TO ADJUST RIGHT HAND SIDE:

- **A.** Remove the right hand fender skirt exposing the Joystick Control Lever Assembly.
- B. Start and run engine at fast idle with Joystick Control Lever in the "DOWN" position.
- C. Loosen the locknuts tightened against the Upper Rod End Ball Joint and Adjusting Coupler on the Upper Linkage Rod Assembly.

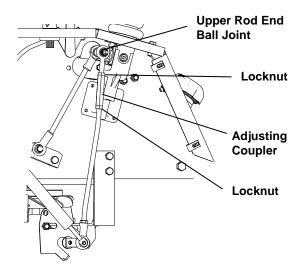
NOTE: One of these is a left hand nut and will have to be turned backwards.

NOTE: Use 2 wrenches (one on the Adjusting Coupler and one on the locknut) when loosening locknuts to prevent damage to Rod End Ball Joints.

- D. Adjust the neutral position by turning the Adjusting Coupler until the wheel stops turning.
- **E.** Retighten the locknuts and check to make sure the drive wheel is still not turning.

NOTE: Use 2 wrenches (one on the Adjusting Coupler and one on the locknut) when loosening locknuts to prevent damage to Rod End Ball Joints.

**F.** Shut off engine before removing from blocks. Replace fender skirt.



#### TO ADJUST LEFT HAND SIDE:

(see next page for illustration)

- A. Start and run engine at fast idle with Joystick Control Lever in the "DOWN" position
- **B.** Loosen locknuts tightened against the Rod End Ball Joints on the Left Hand lower Linkage Rod Assembly.

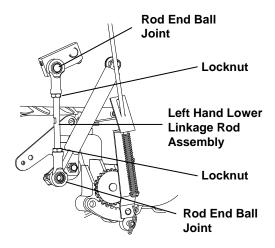
NOTE: One of these is a left hand nut and will have to be turned backwards.

NOTE: Use 2 wrenches (one on the Rod End Ball Joint and one on the locknut) when loosening locknuts to prevent damage to Rod End Ball Joints.

- **C.** Adjust neutral position by turning rod in the Left Hand Lower Linkage Rod Assembly until the wheel stops turning.
- **D.** Retighten the locknuts and check to make sure the drive wheel is still not turning.

NOTE: Use 2 wrenches (one on the Rod End Ball Joint and one on the locknut) when tightening locknuts to prevent damage to Rod End Ball Joints.

**E.** Shut off engine before removing from blocks.

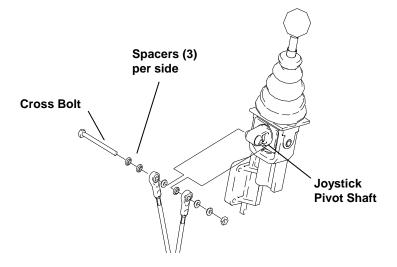


# 11. JOYSTICK CONTROL LEVER SENSITIVITY ADJUSTMENT

To change the sideways turning response, adjust as follows:

- **A.** Remove the right hand fender skirt exposing the Joystick Control Lever assembly.
- **B.** Remove the cross bolt, nut, and spacers
- C. Reassemble the spacers as desired. (2) spacers between the rod end ball joints and the joystick pivot shaft will quicken the side to side response, (1) spacer slows the response.

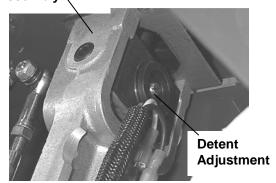
NOTE: It is important that there is at least one spacer on each side of the rod end ball joints to prevent damage. Also the small diameter of the spacer must point towards the rod end ball joint.



# 12. JOYSTICK CONTROL LEVER DETENT ADJUSTMENT:

If the Joystick Control Lever does not lock in the "UP" position, turn the detent adjustment screw clockwise until a desirable locking action is obtained. If the Joystick Control Lever is hard to slide up and down, turn the detent adjustment screw counter-clockwise until a desirable sliding action is obtained.

#### Joystick Assembly



# 13. ADJUSTING FOR STRAIGHT FORWARD TRACKING:

In a large open area, actuate the Control lever(s) into the full forward position. If the mower veers in either direction left or right some adjustment is necessary. If the mower veers to the right, then the right hydrostat needs to be sped up. If the mower veers to the left, then the left hydrostat needs to be sped up. (the tracking adjustment is made using the cam blocks)

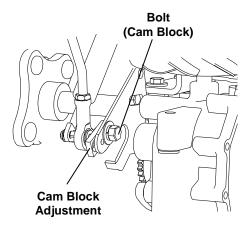
- **A.** Stop the machine and shut off the engine.
- **B.** Increase the control ramp-up speed of the slower side:

#### **CAM BLOCK ADJUSTMENT**

On the side that needs to be sped up:

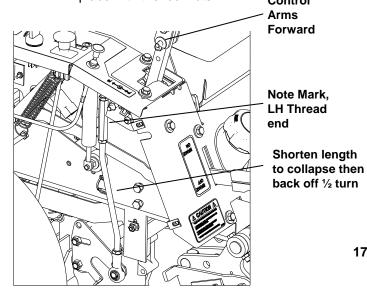
- 1. Loosen the cam block bolt.
- 2. Rotate the block upward.
- 3. Retighten the cam block bolt.
- 4. Readjust the linkage to find neutral.
- 5. Recheck ground speed tracking.

**C.** Once tracking is to the operators liking, readjust neutral as needed. (See page 14 & 15).



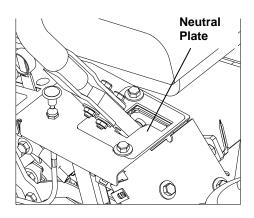
# TWINSTICK CONTROL LEVER FORWARD ADJUSTMENT:

- **A.** Remove the fender skirts from each side of the machine.
- **B.** Block up the unit so that the Drive Wheels are off the ground.
- **C.** Loosen the locknuts on the turnbuckle on the upper linkage on each side.
- **D.** Push both control levers forward until they hit the stops on the control arms.
- **E.** Bungee cord the arm at this position, lengthen the upper linkage rods until they bottom out the transmissions.
- F. Back off the turnbuckles ½ turn and lock in place with the locknuts.



15. TWINSTICK CONTROL LEVER NEUTRAL ADJUSTMENT:

- **A.** Loosen the bolts holding the Neutral Plate.
- **B.** Pull back the control lever until the wheel spin is zero.
- **C.** Tilt the Control lever outward, using the lever, position and tighten the bolts holding the Neutral Plates.



# 16. TWINSTICK CONTROL LEVER FORWARD TRACKING:

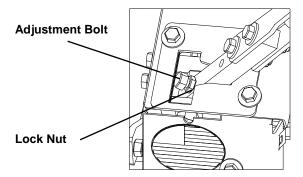
In a large open area, actuate the Joystick Control lever into the full forward position. If the mower veers in either direction left or right some adjustment is necessary. If the mower veers to the right, then the left transmission needs to be slowed down. If the mower veers to the left then the right transmission needs to be slowed down.

- **A.** Stop the machine and shut off the engine.
- B. Slightly loosen the nuts around the turnbuckle on the faster side. Lengthen the lower linkage rod by ¼ turn increments, retighten and retest, until the mower tracks straight.
- **C.** Once the tracking is to the operators liking, completely tighten the nuts on the turnbuckle. Recheck and adjust the Neutral Plate if required.
- D. Reinstall the side plates and tighten all bolts.

# 17. TO ADJUST "IN" OR OPERATING POSITION OF THE TWINSTICK STEERING CONTROL LEVERS:

If the Control levers are too close in the center or the Control Levers Drag on the Neutral Plate, adjust as follows:

- A. Tilt the Control Lever outward, loosen the lock nut and adjust the bolt until the gap between the handles is correct or the Control lever does not rub on the Neutral Plate.
- **B.** Tighten the lock nut after the adjustment is made.

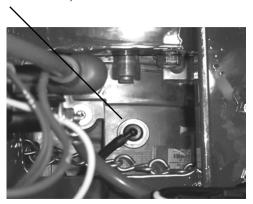


#### 18. HYDROSTATIC TRANSMISSIONS:

Before each use, check to be sure that the cooling fins of the hydrostatic transmissions are clean. Excessive accumulation of oil, dirt, or trash may cause the transmissions to overheat.

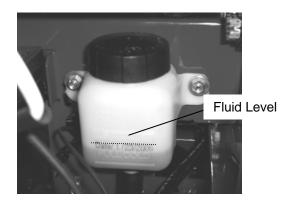
# NOTE: NEVER WASH ACROSS VENT HOSE AREA WITH WATER OR STEAM.

Hydrostatic Transmission Vent Hose (One Each Side)



# 19. HYDROSTATIC TRANSMISSIONS FLUID CHANGE (JAZEE PRO):

A SAE 20W-50 engine oil has been selected for use by factory and is recommended for normal operating temperatures. Each transmission holds a maximum of 74 oz of oil. Refer to the following picture to check fluid level.



It is essential that the unit exterior be free of debris prior to doing any fluid maintenance.

Remove the oil drain plug in the transmission to facilitate oil change. When reinstalling this plug torque it to 180-240 in-lbs.

Remove the filter from the transmission, clean all debris from the screens and check for any damage to the filter.
Replace the filter if the plastic is cracked or screens are loose. Use Part # H-2256 when reordering from Country Clipper. When tightening the filter ensure the proper torque of 20-50 in-lbs is applied. Filter is plastic, excessive torque will damage the filter.

Due to the effect air has on efficiency in hydrostatic drive, it is critical that it be purged from the system.

These purge procedures should be performed any time a hydrostatic system has been opened for maintenance or oil has been added to the system.

# The symptoms of too much air in the hydrostatic systems may be:

- 1. Noisy operation.
- 2. Lack of power or drive after short term operation.
- High operation temperature and excessive expansion of oil. Before starting, make sure the transmission is at the proper oil level. If it is not, fill to specifications.

#### 20. PURGING PROCEDURES

#### Oil Hydrostatic Transmission

The following procedures should be performed with the vehicle drive wheels off the ground then repeated under normal operating conditions.

- **A.** With the transmission unlocked (see page 10 for details) and engine running, slowly move the directional control in both forward and reverse directions 5 to 6 times. As air is purged from the unit, the oil level will drop.
- **B.** With the transmission locked and the engine running, slowly move the directional control in both forward and reverse directions (5 to 6 times). Check the oil level, and add oil as required after stopping engine.
- C. It may be necessary to repeat Steps 1 and 2 until all air is completely purged from the system. When the transaxle moves forward and reverse at a normal speed purging is complete.

# PROCEDURE FOR RAISING AND LOWERING THE DECK FOR SERVICING

#### 1. RAISING THE DECK:

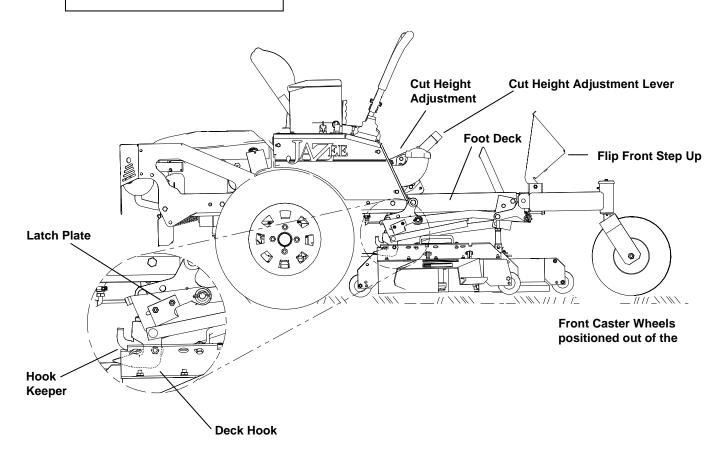
- A. Remove cut height adjustment pin and completely lower the cut height adjustment lever. Re-insert the cut height adjustment pin immediately above Cut Height Adjustment Lever (this will lock the cut height adjustment lever into the lowest position).
- B. Carefully rotate the Deck Belt Tension. Latch to release tension on the Deck Belt. Remove the engine to deck Drive belt from the clutch on the engine. Flip up the Front Step.
- C. On the right side of the mower, lift and hold up on the hook keeper. Lift up on the release handle to disconnect the back of the deck. The latch plate should catch and hold the release handle rod in place. (To adjust the latch plate, see page 22.)

- **D.** Position the front caster wheels so they are away from the deck (such as the tractor would be traveling in reverse).
- E. Lift the nose of the deck until the deck is standing near vertical (lifting can be made easier if someone stands on the rear bumper of the tractor).
  IMPORTANT NOTE: MAKE SURE THAT THE DECK IS LIFTED FAR ENOUGH TO GO COMPLETELY "OVER-CENTER". This will prevent the deck from falling down when servicing the underside of the mower deck.
- F. Release the deck prop from its stowed position and place the free end against the deck lift casting as shown on page 20. Make sure the point of the prop falls within the center clearance area.

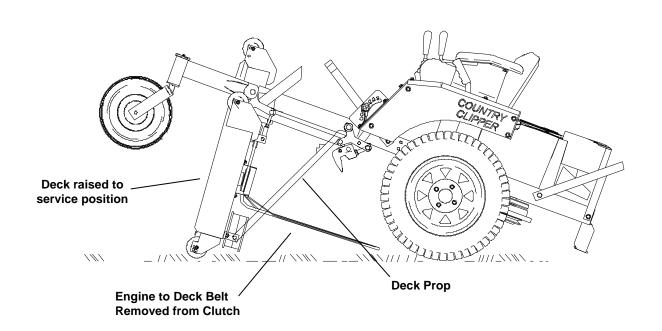
#### 2. LOWERING THE DECK:

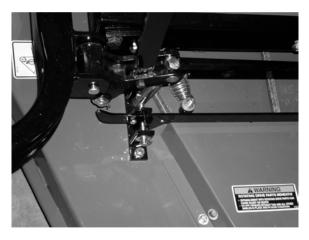
- A. Place the prop back in the stow position.
- **B.** Push the bottom (back) of the deck towards the rear of the tractor. Lower the deck until it rests on the ground.
- **C.** Lift up on the latch plate to release the release handle rod. Push down on the release handle until deck hooks lock into place.
- **D.** Install the engine to deck belt onto the clutch on the engine.
- E. Ensure that the engine to deck drive belt is installed onto all of the pulleys and idlers in the drive train. Carefully rotate the Deck Belt Tension Latch to retension the Deck Belt.
- **F.** Lower the foot deck down into the operation position. On units so equipped, lower the front step.

# MOWER SHOWN IN OPERATION POSITION.



# MOWER SHOWN IN SERVICING POSITION.

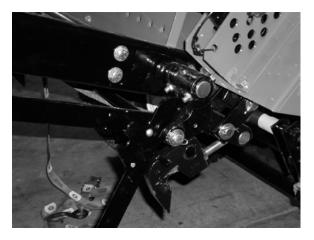




Deck Prop shown in the "Stowed" position.



Deck Prop being placed against the Deck lift casting.



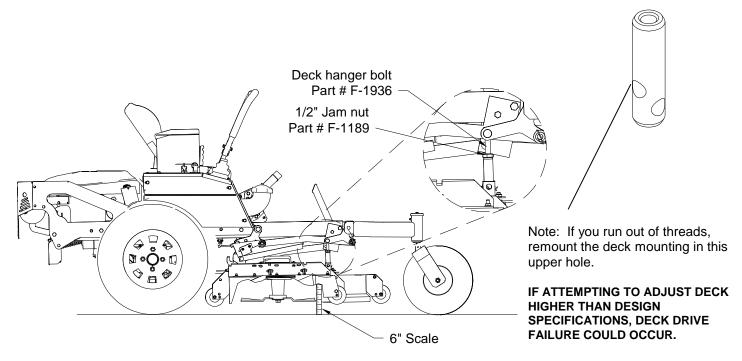
Deck Prop securely in place against Deck lift casting.

#### **LEVELING THE DECK**

NOTE: The Deck has been leveled at the Factory.

If leveling is needed, use the following procedures.

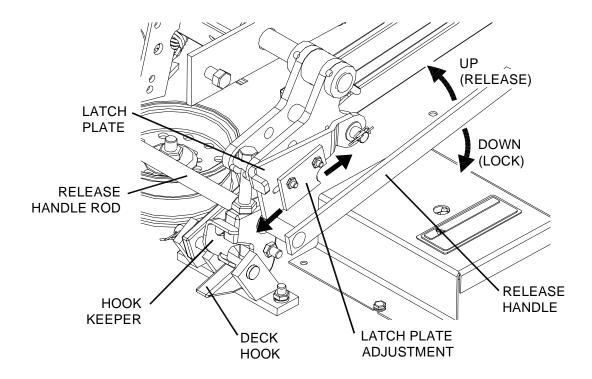
- 1. Move the tractor to a hard surface (i.e. concrete or blacktop)
- 2. Set the tire pressure on each of the four tires to 12 psi
- 3. Set the deck cutting height to the highest position and rotate the two outside blades by hand until one end of each outside blade points forward (toward the front of tractor)
- **4.** Measure from the ground to the front blade tip of each outside blade. These measurements should be within 1/8" of each other. (NOTE: To simplify this measuring, an optional Blade Measuring tool, part Number 629-374A is available from your local "Country Clipper" Dealer)



- 5. If adjustment is needed, loosen the jam nut(s) of the Deck Hanger Bolt(s) and adjust the Deck Hanger Bolt(s) up or down accordingly. It may be necessary to adjust both the front and rear Deck Hanger Bolts for a given side.
- **6.** Once the side to side cut height is within tolerance, measure from the ground to the blade tip at the rear of each outside blade. This measurement should be between 1/8" and ¼" higher from the ground than the front of the blade from the ground on the corresponding side of the deck. Adjust rear and/or the front deck hangers accordingly to obtain the proper measurement. Re-measure the side to side cutting height to confirm that they are still within 1/8" of each other at the front of the blade.
- 7. Confirm that the deck is hanging firmly on ALL four deck hanger bolts. Readjust any loose Deck Hanger Bolts accordingly.
- **8.** Once all of the above measurements are confirmed, tighten ALL jam nuts on the Deck Hanger Bolts. Failure to tighten can result in an un-level cutting deck and/or lost Deck Hanger Components.

#### ADJUSTING THE LATCH PLATE

- 1. Level the deck before proceeding to adjust the latch plate. (Follow instructions on previous page.) Pin the deck in the lowest position before proceeding to adjust the latch plate.
- 2. Lift up on the hook keeper, while pulling up on the release handle. This will disconnect the rear of the deck.
- 3. Loosen nuts on the adjustment of the latch plate using a 7/16 wrench. Pull up on the release handle as far as it will allow. Slide adjustment back or forward to where the latch plate will catch the release handle rod at its highest location. Tighten nuts back.
- 4. Lift up on latch plate and push down on the release handle to lock deck hooks in place.
- **5.** Double check the latch plate adjustment by releasing the deck hangers and pulling up on the release handle. If the latch plate catches the release handle rod, no further adjustment needs to be made. If it does not, follow steps 3-5, as needed.



## TROUBLE SHOOTING CHECK LIST

1.	ENGINE WON'T TURN OVER:	
	Mower blades engaged	disengage blades
	Drive not in neutral	move Control Lever(s) to neutral position
		replace fuse
		consult dealer
	Ignition switch	consult dealer
	Starter	consult dealer
2.	ENGINE WILL TURN OVER BUT W	VON'T START:
	No gas	refuel
	-	clean or replace fuel filters
		adjust choke
	Spark plug not firing	check spark plug condition and reset gap*
	Carburetor maladiustment	condition and reset gap  reset carburetor adjustment*
		consult dealer
	<u> </u>	
•	LIADD TO CTADT ENGINE.	
3.	HARD TO START ENGINE:	clean fuel line and check fuel filter
	Faulty fuel pump	consult dealer
	Spark plug wire loose or gro	ounded check spark plug wires
	Spark plug(s) faulty or impro	operly gapped check spark plug
	Electricate to decide to the control	condition and reset gap*
	Dirty or maladiusted carbure	consult dealer etor readjust carburetor*
	Dirty of maladjusted carbure	consult dealer for carburetor service
4.	ENGINE STARTS BUT CUTS OUT	: drain old gasoline and replace with new gasoline
	water in gasonne	clean carburetor bowl
	Clogged fuel line	check fuel filter
		clean fuel line
	Vent in fuel cap plugged	check vent
		consult dealer readjust carburetor*
		ever(s) is move from "neutral" parking brake set
	Engine dies mien seinier E	release brake
5.	ENGINE KNOCKS:	
J.		check and add oil
	Ignition timing off	consult dealer
		drain and replace with
	Overally and a live of a second	higher octane gasoline
	Over neated engine	shut off engine and allow to cool

<sup>\*</sup> See engine manual for engine adjustments.

6.	ENGINE SOMETIMES SKIPS AT HIGHER SPEEDS:  Incorrect Ignition Timing consult dealer Carburetor maladjusted readjust carburetor Faulty spark plugs check spark plug condition and reset gap*  Bouncing off seat safety switch slow down on rough terrain
7.	ENGINE OVER HEATED:  Air intake screen or fins clogged
8.	ENGINE IDLES POORLY:  Carburetor maladjustment readjust carburetor Improper spark plug gap check and re-gap plug*
9.	ENGINE BACKFIRES:  Carburetor maladjustment readjust carburetor*
10.	ENGINE RUNS BUT MOWER WON'T MOVE FORWARD:  Transmission locks in free wheel position put in lock position (see pg. 9)  Drive belt broken or slipping replace drive belt  Shift linkage disconnected reconnect  Transmission oil low
11.	MOWER LOSES POWER OR TRANSMISSIONS OVER HEATS: Transmission damage consult dealer
12.	ENGINE STALLS WHEN BLADES ARE ENGAGED:  Operator not on seat

• See engine manual for engine adjustments.

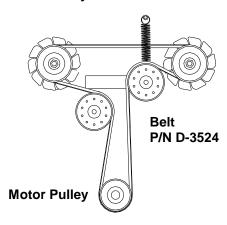
## **BELT ROUTINGS**

## Hydrostatic Transmission Drive Belt

(Viewed from ground looking up)

#### Right Hand Hydrostatic Transmission Pulley

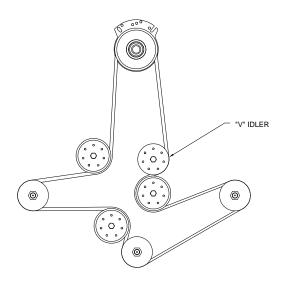
Left Hand Hydrostatic Transmission Pulley

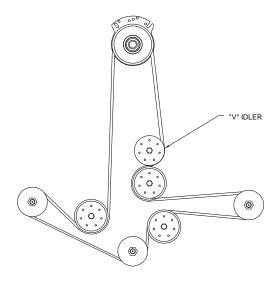


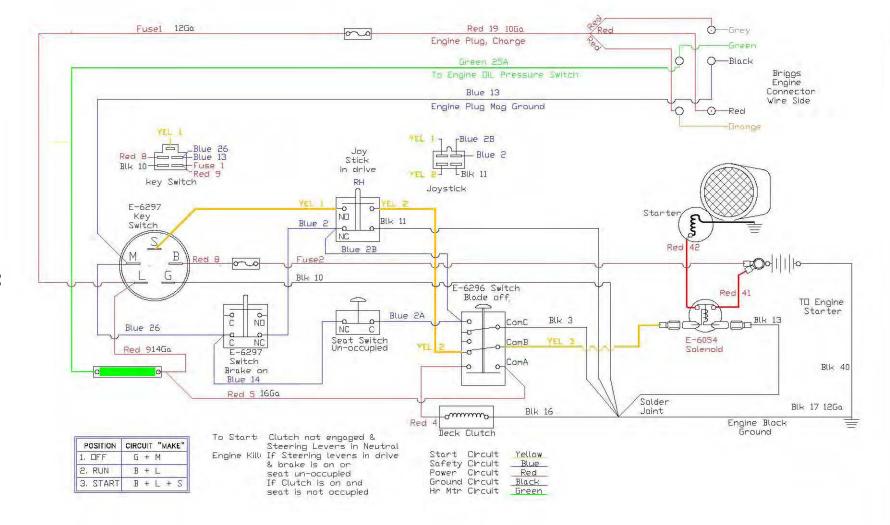
48" DECK BELT P/N: D-3775-W

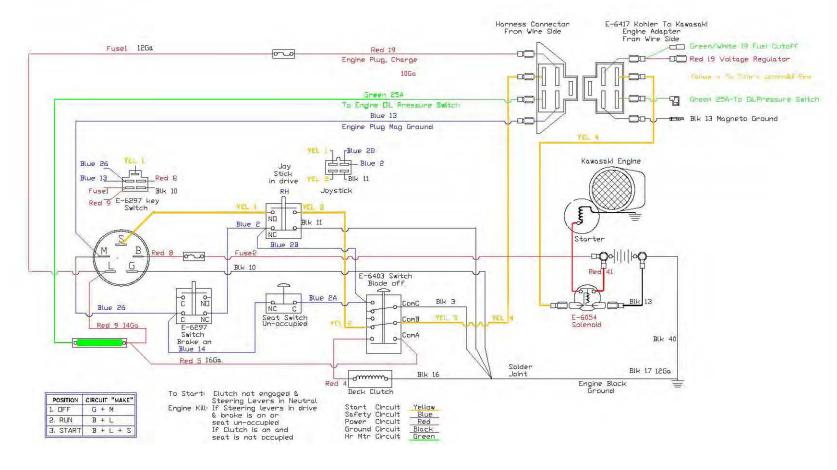
52" DECK BELT P/N: D-3776-W

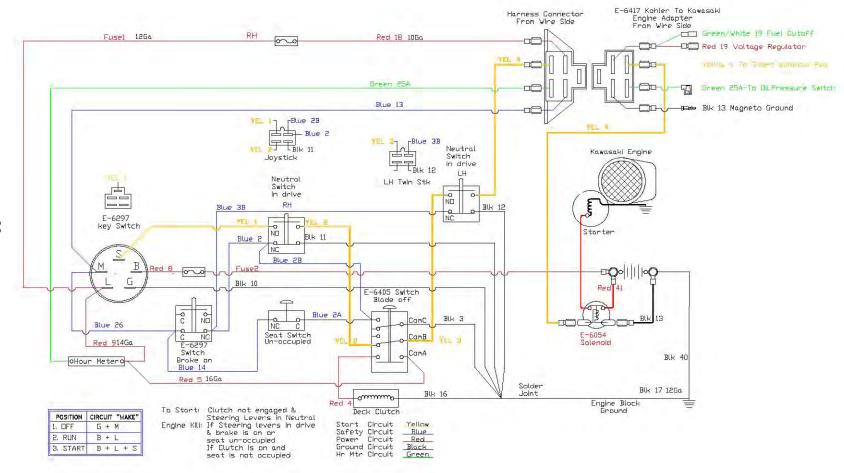
60" DECK BELT P/N: D-3776-W

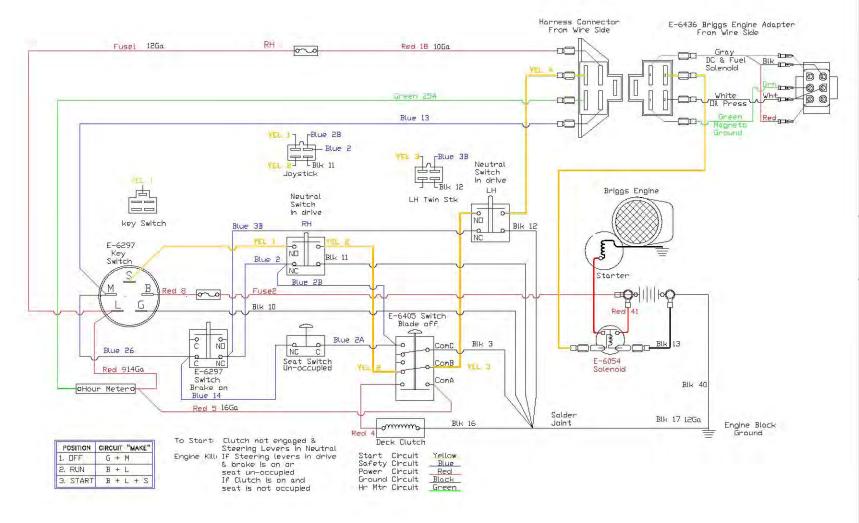












## **NOTES / SERVICE RECORDS:**

DATE	SERVICE WORK COMPLETED

## **Safety Instructions & Operators Manual**



## Zero Turn Radius Mower





## **WARNING**



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

#### **Country Clipper Division**

Shivvers Manufacturing Inc. 613 W. English St. Corydon, IA 50060-0467 Ph. 641-872-2544 Fax. 641-872-1593