SECTION 1: IMPORTANT SAFE OPERATION PRACTICES

WARNING: This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol—heed its warning.

DANGER: This machine was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

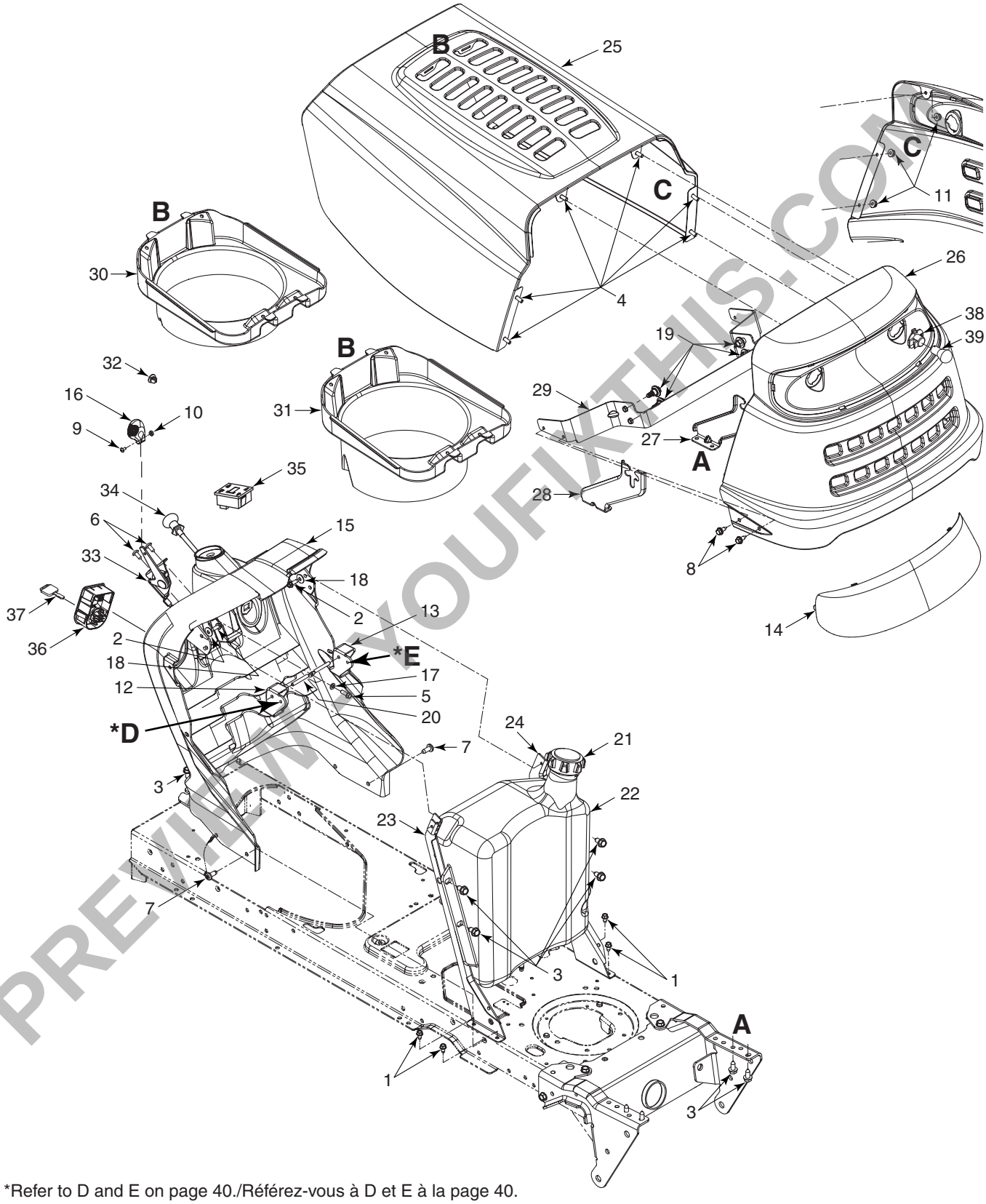
GENERAL OPERATION

1. Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.
3. Never allow children under 14 years old to operate this machine. Children 14 years old and over should read and understand the operation instructions and safety rules in this manual and should be trained and supervised by a parent.
4. Never allow adults to operate this machine without proper instruction.
5. To help avoid blade contact or a thrown object injury, keep bystanders, helpers, children and pets at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
6. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones, toys, and other foreign objects which could be picked up and thrown by the blade(s). Thrown objects can cause serious personal injury.
7. Plan your mowing pattern to avoid discharge of material toward roads, sidewalks, bystanders and the like. Also, avoid discharging material against a wall or obstruction which may cause discharged material to ricochet back toward the operator.
8. Always wear safety glasses or safety goggles during operation and while performing an adjustment or repair to protect your eyes. Thrown objects which ricochet can cause serious injury to the eyes.
9. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Loose fitting clothes and jewelry can be caught in movable parts. Never operate this machine in bare feet or sandals.
10. Be aware of the mower and attachment discharge direction and do not point it at anyone. Do not operate the mower without the discharge cover or entire grass catcher in its proper place**.**
11. Do not put hands or feet near rotating parts or under the cutting deck. Contact with the blade(s) can amputate hands and feet.
12. A missing or damaged discharge cover can cause blade contact or thrown object injuries.
13. Stop the blade(s) when crossing gravel drives, walks, or roads and while not cutting grass.
14. Watch for traffic when operating near or crossing roadways. This machine is not intended for use on any public roadway.
15. Do not operate the machine while under the influence of alcohol or drugs.
16. Mow only in daylight or good artificial light.
17. Never carry passengers.
18. Disengage blade(s) before shifting into reverse. Back up slowly. Always look down and behind before and while backing to avoid a back-over accident.
19. Slow down before turning. Operate the machine smoothly. Avoid erratic operation and excessive speed.
20. Disengage blade(s), set parking brake, stop engine and wait until the blade(s) come to a complete stop before removing grass catcher, emptying grass, unclogging chute, removing any grass or debris, or making any adjustments.
21. Never leave a running machine unattended. Always turn off blade(s), place transmission in neutral, set parking brake, stop engine and remove key before dismounting.
22. Use extra care when loading or unloading the machine into a trailer or truck. This unit should not be driven up or down ramp(s), because the unit could tip over, causing serious personal injury**.** The unit must be pushed manually on ramp(s) to load or unload properly.
23. Muffler and engine become hot and can cause a burn. Do not touch.
24. Check overhead clearances carefully before driving under low hanging tree branches, wires, door openings etc., where the operator may be struck or pulled from the unit, which could result in serious injury.

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Style 1



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*Refer to D and E on page 40./Référez-vous à D et E à la page 40.

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REF. NO. N°. DE RÉF.	PART NO. N° DE PIÈCE	DESCRIPTION	DESCRIPTION
1	710-0599	Hex Wash S-Tapp Scr 1/4-20 x .50	Vis autotaraudeuse à rondelle hex. 1/4-20 x 0,50
2	710-0642	Thd Forming Scr. 1/4-20 x .75 Lg.	Vis taraudée 1/4-20 x 0,75 lg.
3	710-0726	Hex Wash HD AB Tap Scr 5/16 x .75	Vis taraudée 5/16 x 0,75
4	710-0751	Hex Bolt 1/4-20 x .62 Gr. 5	Boulon hexagonale 1/4-20 x 0,62 Qual. 5
5	710-0895	Hex Tapp Scr 1/4 x .75" Lg.	Vis taraudée à tête hex. de 1/4 x 0,75 po de lg.
6	710-1017	Torx Mach. AB-Tapp Scr. 1/4-14 x .625 Lg.	Vis torx AB 1/4-14 x 0,625 po de lg.
7	710-1611B	Screw 5/16-18 x .75	Vis 5/16-18 x 0,75
8	710-1652	Hex Wash Hd TT Scr. 1/4-20 x .625	Vis taraudée 1/4-20 x 0,625
9	710-3217	Torx Screw, #8-32 x .375	Vis Torx n°. 8-32 x 0,375 po
10	712-0142	Flat Washer 1/4" ID	Rondelle plate 1/4 DI
11	712-04064	Hex L-Flanged Nut 1/4-20 Gr. F Nylon	Contre-écrou à embase 1/4-20 Qual. F nylon
12	731-04215	Cruise Control Button	Bouton de régulateur de vitesse
13	731-04217	Parking Brake Button	Bouton de frein de stationnement
14	731-04949	Headlight Lens	Bloc-optique du phare
15	731-05001	Dash Panel w/Manual PTO	Tableau de bord avec p.d.f. manuelle
16	731-1857	Throttle Control Lever	Manette de l'obturateur
17	736-0142	Flat Washer .281 ID x .50 OD x .063	Rondelle plate 0,281 DI x 0,50 DE x 0,063
18	736-0270	Cupped Washer .265 ID x .75 OD x .062	Rondelle creuse 0,265 DI x 0,75 DE x 0,062
19	738-04091	Shoulder Screw .43 x .29:5/16-18	Vis à épaulement 0,43 x 0,29:5/16-18
20	747-1196	Pivot Rod	Tige de pivot
21	751-0603	Cap-Fuel	Capuchon d'essence
22	751-0658E	Fuel Tank 3 Gal.	Réservoir de carburant 3 gal.
22	751-0659C	Fuel Tank 2 Gal.	Réservoir de carburant 2 gal.
23	783-04285A	R.H. Dash Support Plate	Support CD - tableau de bord
24	783-04323A	L.H. Dash Support Plate	Support CG - tableau de bord
25	783-04551	Hood Style 1	Capot style 1
26	783-04552	Grill Style 1	Grille style 1
27	783-04577	LH Pivot Bracket	Support de pivot CG
28	783-04578	RH Pivot Bracket	Support de pivot CD
29	783-04621	Grill Pivot Bracket	Support de pivot de la grille
30	731-05165	Hood Plenum Style 1 Short	Chambre de capot courte style 1
31	731-05147	Hood Plenum Style 1 Long	Chambre de capot longue style 1
32	731-1999	Choke Plug	Bouchon-volet de départ
33	746-1084	Choke/Throttle Cable (Intek Single)	Câble de l'obturateur/volet de départ (Intek)
33	746-1086	Throttle Cable (Intek Twin)	Câble de l'obturateur (moteur Intek à cylindres jumelés)
34	746-1085A	Choke Cable (Intek Twin)	Câble de volet de départ (moteur Intek à cylindres jumelés)
35	725-04039	Interlock Switch	Contacteur
35	725-04156	Sys. Ind Monitor w/Ammeter-w/o Lights	Écran de contrôle avec ammètre - sans phare
36	725-04230	Ignition Switch-Export Module	Commutateur d'allumage - module d'export
37	725-1744	Ignition Key w/o Plastic Cover	Clé de contact sans capuchon en plastique
37	725-1745	Ignition Key w/Plastic Cover	Clé de contact avec capuchon en plastique
38	725-1649	Socket	Douille
39	725-0963	Miniature Lamp 12V Socket Type	Ampoule miniature 12V

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SECTION 7: MAINTAINING YOUR LAWN TRACTOR

WARNING: Before performing any maintenance or repairs, disengage PTO, move shift lever into neutral position, set parking brake, stop engine and remove key to prevent unintended starting.

Engine

Refer to the separate engine manual for engine maintenance instructions.

Check **engine oil level** before each use as instructed in the separate engine manual packed with your unit. **Read and follow instructions carefully.**

Changing Engine Oil

NOTE: *Depending on the engine model found on your tractor, it may be necessary to remove the tractor's side panel in order to replace the oil filter (if so equipped).*

- Unscrew oil fill cap and remove dipstick from the oil fill tube. See Figure 17.

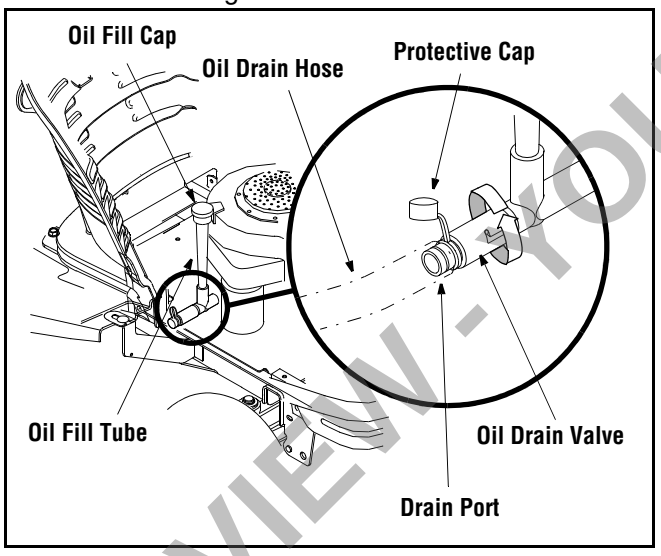


Figure 17

- Pop open the protective cap on the end of the oil drain valve to expose the drain port. See Figure 17.
- Push the oil drain hose (packed with this manual) onto the oil drain port. Route the opposite end of the hose into an appropriate oil collection container with a capacity of no less than 64 oz.
- Push the oil drain valve in slightly, then rotate counterclockwise and pull outward to begin draining oil. See Figure 17.
- Service the **oil filter** (if so equipped) as instructed in the separate *Engine* Manual packed with your unit.

Perform the above steps in the opposite order after oil has finished draining.

- Refill the engine with new motor oil.

IMPORTANT: Refer to the separate engine manual packed with your unit for information regarding the quantity and proper weight of motor oil.

Air Cleaner

Service the pre-cleaner, if so equipped, and cartridge/ air cleaner element as instructed in the separate engine manual packed with your unit.

Spark Plug(s)

The spark plug(s) should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season. Refer to the separate engine manual for correct plug type and gap specifications.

Lubrication

WARNING: Before lubricating, repairing, or inspecting, always disengage PTO, move shift lever into neutral position, set parking brake, stop engine and remove key to prevent unintended starting.

Engine

Lubricate the engine with motor oil as instructed in the separate engine manual packed with your unit.

Pivot Points & Linkage

Lubricate all the pivot points on the drive system, parking brake and lift linkage at least once a season with light oil.

Rear Wheels

The rear wheels should be removed from the axles once a season. Lubricate the axles and the rims well with an all-purpose grease before re-installing them.

Front Axles

Each end of the tractor's front pivot bar may be equipped with a grease fitting. Lubricate with a grease gun after every 25 hours of tractor operation.

Cleaning the Engine and Deck

Any fuel or oil spilled on the machine should be wiped off promptly. Do NOT allow debris to accumulate around the cooling fins of the engine or on any other part of the machine.

IMPORTANT: The use of a pressure washer or garden hose to clean your tractor is NOT recommended. It may cause damage to electrical components, spindles, pulleys, bearings or the engine. The use of water will result in a shortened life of the tractor and reduce its serviceability.

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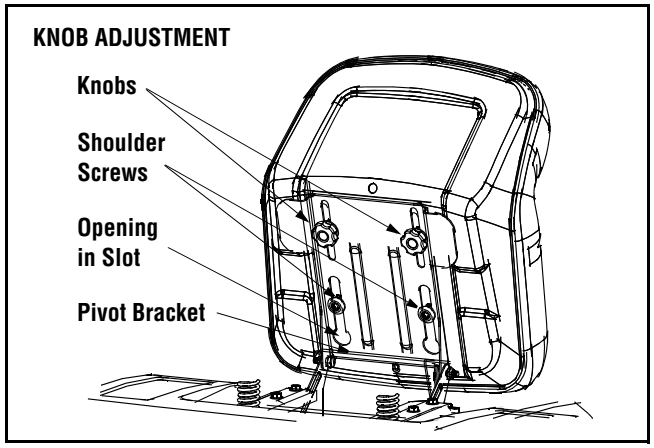


Figure 5

WARNING

AVOID SERIOUS INJURY OR DEATH

- GO UP AND DOWN SLOPES, NOT ACROSS.
- AVOID SUDDEN TURNS.
- DO NOT OPERATE THE UNIT WHERE IT COULD SLIP OR TIP.
- IF MACHINE STOPS GOING UPHILL, STOP BLADE(S) AND BACK DOWNHILL SLOWLY.
- DO NOT MOW WHEN CHILDREN OR OTHERS ARE AROUND.
- NEVER CARRY CHILDREN, EVEN WITH BLADES OFF.
- LOOK DOWN AND BEHIND BEFORE AND WHILE BACKING.
- KEEP SAFETY DEVICES (GUARDS, SHIELDS, AND SWITCHES) IN PLACE AND WORKING.
- REMOVE OBJECTS THAT COULD BE THROWN BY THE BLADE(S).
- KNOW LOCATION AND FUNCTION OF ALL CONTROLS.
- BE SURE BLADE(S) AND ENGINE ARE STOPPED BEFORE PLACING HANDS OR FEET NEAR BLADE(S).
- BEFORE LEAVING OPERATOR'S POSITION, DISENGAGE BLADE(S), PLACE THE SHIFT LEVER IN NEUTRAL, ENGAGE BRAKE LOCK, SHUT ENGINE OFF AND REMOVE KEY.

READ OPERATOR'S MANUAL

SECTION 4: KNOW YOUR LAWN TRACTOR

Throttle Control Lever

The throttle control lever is located on the right side of the tractor's dash panel. This lever controls the speed of the engine and, on some models, when pushed all the way forward, the choke control also. When set in a given position, the throttle will maintain a uniform engine speed. See Figure 6.

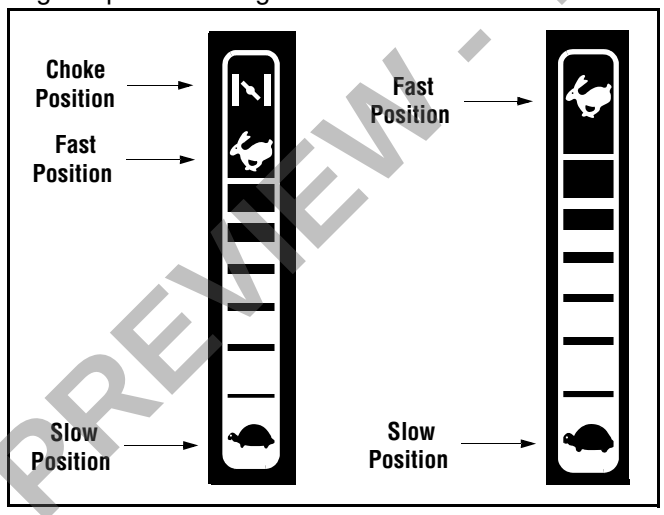
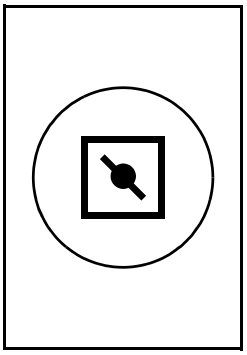


Figure 6

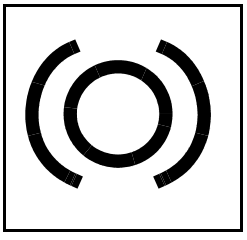
IMPORTANT: When operating the tractor with the cutting deck engaged, be certain that the throttle lever is **always** in the FAST (rabbit) position.

Choke Control



On some models, moving the throttle lever all the way forward activates the engine's choke control. On all other models, the choke control can be found on the left side of the dash panel and is activated by pulling the knob outward. Activating the choke control closes the choke plate on the carburetor and aids in starting the engine. Refer to **Starting The Engine** in the OPERATION section of this manual for detailed starting instructions.

Brake Pedal



The brake pedal is located on the right front side of the tractor above the drive pedal along the running board. The brake pedal can be used for sudden stops or setting the parking brake.

NOTE: *The brake pedal must be fully depressed to activate the safety interlock switch when starting the tractor.*

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Shift Lever

The shift lever is located on the left side of the fender and has three positions, FORWARD, NEUTRAL and REVERSE. The brake pedal must be depressed and the tractor must not be in motion when the moving shift lever. See Figure 10.

IMPORTANT: Never force the shift lever. Doing so may result in serious damage to the tractor's transmission.

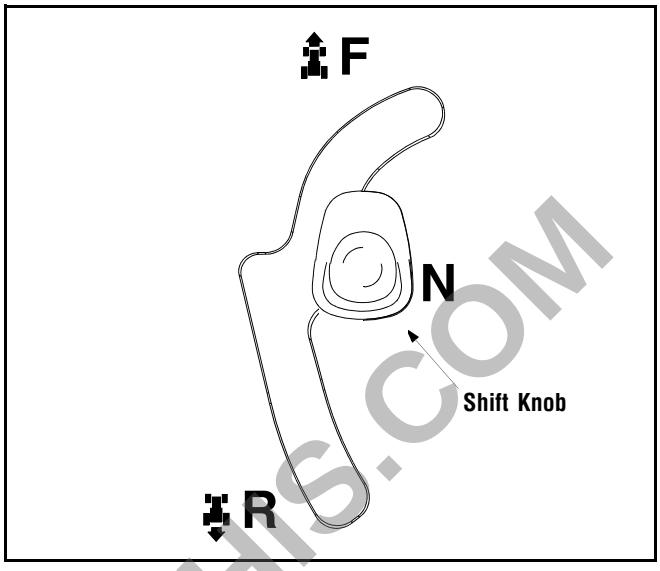


Figure 10

SECTION 5: OPERATING YOUR LAWN TRACTOR

Safety Interlock Switches

This tractor is equipped with a safety interlock system for the protection of the operator. If the interlock system should ever malfunction, do not operate the tractor. Contact an authorized service dealer.

- The safety interlock system prevents the engine from cranking or starting unless the parking brake is engaged, and the PTO (Blade Engage) knob (or lever) is in the disengaged (OFF) position.
- The engine will automatically shut off if the operator leaves the seat before engaging the parking brake.

Models with Manual PTO (Blade Engage)

- The engine will automatically shut off if the operator leaves the tractor's seat with the PTO (Blade Engage) lever in the engaged (ON) position, regardless of whether the parking brake is engaged.
- With the ignition key in the **NORMAL MOWING** position, the engine will automatically shut off if the PTO (Blade Engage) lever is moved into the engaged (ON) position with the shift lever in Reverse.

Models with Electric PTO (Blade Engage)

- The electric PTO (Blade Engage) clutch will automatically shut off if the operator leaves the tractor's seat with the PTO (Blade Engage) knob in the engaged (ON) position, regardless of whether the parking brake is engaged.
- With the ignition key in the **NORMAL MOWING** position, the electric PTO (Blade Engage) clutch will automatically shut off if the PTO (Blade Engage) knob is moved into the engaged (ON) position with the shift lever in Reverse.

WARNING: Do not operate the tractor if the interlock system is malfunctioning. This system was designed for your safety and protection.

Reverse Caution Mode

The **REVERSE CAUTION MODE** position of the key switch module allows the tractor to be operated in reverse with the blades (PTO) engaged.

IMPORTANT: *Mowing in reverse is not recommended.*

WARNING: Use extreme caution while operating the tractor in the **REVERSE CAUTION MODE.** Always look down and behind before and while backing. Do not operate the tractor when children or others are around. Stop the tractor immediately if someone enters the area.

To use the **REVERSE CAUTION MODE**:

IMPORTANT: *The operator MUST be seated in the tractor seat.*

1. Start the engine as previously instructed in this Operator's Manual.
2. Turn the key from the **NORMAL MOWING** (Green) position to the **REVERSE CAUTION MODE** (Yellow) position of the key switch module. See Figure 11.

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IMPORTANT: If the cutting edge of the blade has already been sharpened to within 5/8" of the wind wing radius, or if any metal separation is present, replace the blades with new ones. See Figure 20.

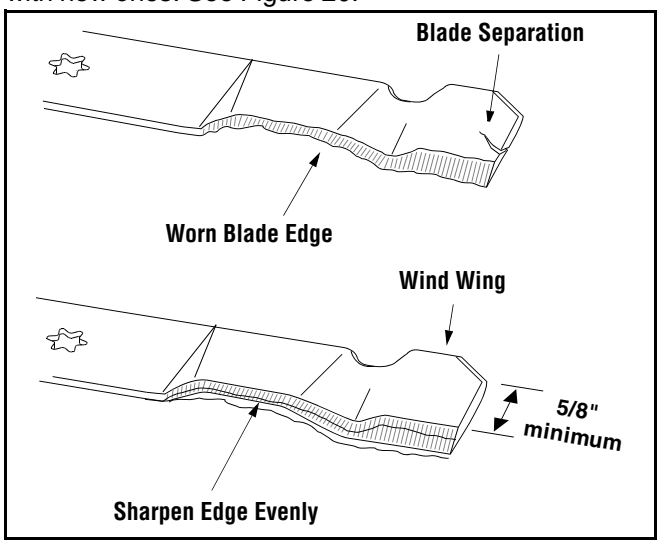


Figure 20

It is important that each cutting blade edge be ground equally to maintain proper blade balance.

A poorly balanced blade will cause excessive vibration and may cause damage to the tractor and result in personal injury. The blade can be tested by balancing it on a round shaft screwdriver. Grind metal from the heavy side until it balances evenly.

When replacing the blade, be sure to install the blade with the side of the blade marked ‘‘Bottom’’ (or with a part number stamped in it) facing the ground when the mower is in the operating position.

IMPORTANT: Use a torque wrench to tighten the blade spindle hex flange nut to between 70 foot-pounds and 90 foot-pounds.

Fuses

Two fuses are installed in your tractor’s wiring harness to protect the tractor’s electrical system from damage caused by excessive amperage.

If the electrical system does not function, or your tractor’s engine will not crank, first check to be certain that the fuse has not blown.

One can be found under the hood mounted behind the top of the dash panel on the support bar.
The other can be found under the seat mounted to the inside of the tractor frame next to the battery tray.

WARNING: Always use a fuse with the same amperage capacity for replacement.

Changing the Deck Belt & PTO Belt

WARNING: Be sure to shut the engine off, remove ignition key, disconnect the spark plug wire(s) and ground against the engine to prevent unintended starting before removing the belt(s).

WARNING: Avoid the possibility of a pinching injury. Do not place your fingers on the idler spring or between the belt and the pulley while removing the belt.

All belts on your tractor are subject to wear and should be replaced if any signs of wear are present.

IMPORTANT: The V-belts found on your tractor are specially designed to engage and disengage safely. A substitute (non-OEM) V-belt can be dangerous by not disengaging completely. For a proper working machine, use factory approved belts.

To change or replace the deck belt and PTO belt on your tractor, proceed as follows:

- Lower the deck by moving the deck lift lever into the bottom notch on the right fender.
- Remove the belt guards by removing the self-tapping screws that fasten them to the deck.

42-inch and 46-inch Decks with Manual PTO

- Grasp the rearmost portion of the PTO idler bracket and pivot it toward the discharge chute to relieve tension on the PTO belt. See Figure 21.
- Remove the PTO belt from around the engine pulley (or electric PTO clutch) and from around the PTO idler pulley(s).
- Grasp the deck idler pulley and pivot it toward the left to relieve tension on the deck belt. Carefully allow the ratchet to pivot rearward before removing it from the square hole.
- Remove the deck belt from around all pulleys, including the deck idler pulley.
- Route the new belts (deck belt first) as shown in Figure 21.
- Remount the belt guards removed earlier.

42-inch Decks with Electric PTO

- Remove the belt keeper rod from around the engine pulley.
- Insert a 3/8”-drive ratchet wrench (set to *loosen)* into the square hole found in the idler bracket on the left side of the deck’s surface. See Figure 22.
- Grasp the ratchet’s handle and pivot it toward the front of the tractor to relieve tension on the belt.
- With belt tension relieved, **carefully remove the belt from around the left-hand spindle pulley.**

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SECTION 3: TRACTOR SET-UP

NOTE: *This owner's manual covers various models of lawn tractors. The units illustrated may vary slightly from your unit. Follow only those instructions which pertain to your model lawn tractor.*

Attaching the Battery Cables

NOTE: *The positive battery terminal is marked Pos. (+). The negative battery terminal is marked Neg. (–).*

- The positive cable (heavy red wire) is secured to the positive battery terminal (+) with a hex bolt and hex nut at the factory. Make certain that the rubber boot covers the terminal to help protect it from corrosion.
- Remove the hex bolt and wing nut from the negative cable.
- Remove the black plastic cover, if present, from the negative battery terminal and attach the negative cable (heavy black wire) to the negative battery terminal (–) with the bolt and wing nut.
- Make certain the retainer rod is in position over the battery, securing it in place. See Figure 1.

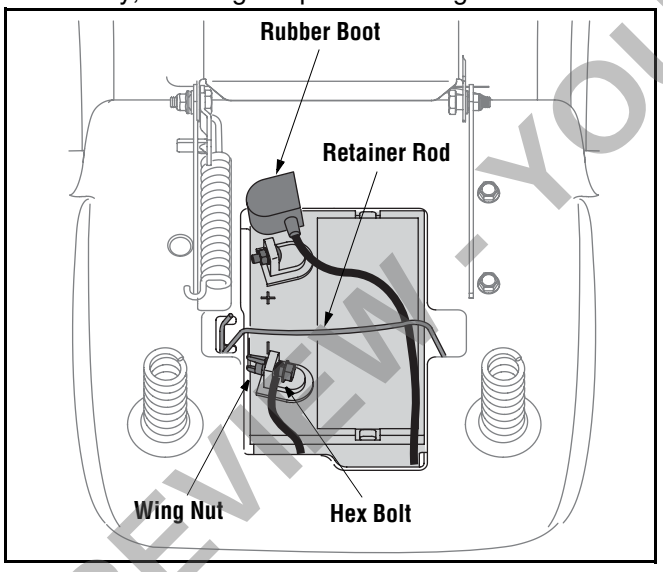


Figure 1

NOTE: *If the battery is put into service after the date shown on top of battery, charge the battery as instructed* in the SERVICE section of this manual prior to operating the tractor.

Gas and Oil Fill-up

The gasoline tank is located under the hood and has a capacity of either two or three gallons. Do not overfill.

WARNING: Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Never fuel machine indoors or while the engine is hot or running. Extinguish cigarettes, cigars, pipes, and other sources of ignition.

Service the engine with gasoline and oil as instructed in the separate engine manual packed with your tractor. Read instructions carefully.

IMPORTANT: Your tractor is shipped with motor oil in the engine. However, you **MUST** check the oil level before operating. Be careful not to overfill.

Shipping Brace Removal

WARNING: Make sure the riding mower's engine is off, remove the ignition key, and set the parking brake before removing the shipping brace.

- Locate the shipping brace, if present, and accompanying warning tag found on the right side of the mower, between the discharge chute and the cutting deck. See Figure 2.

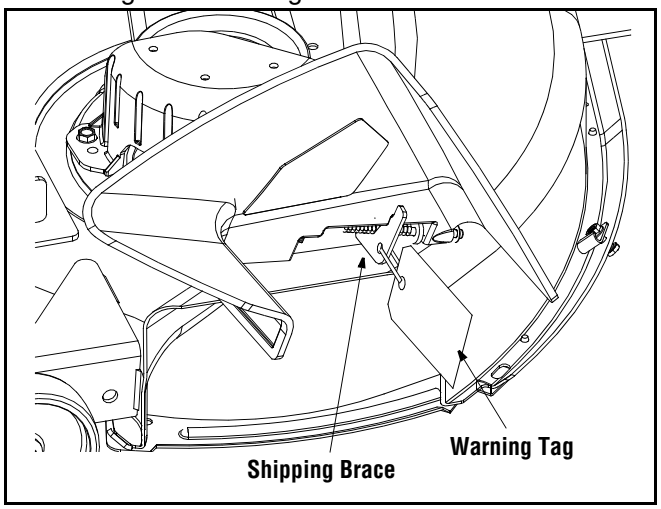


Figure 2

- While holding the discharge chute with your left hand, remove the shipping brace with your right hand by grasping it between your thumb and index finger and rotating it clockwise.

WARNING: The shipping brace, used for packaging purposes only, must be removed and discarded before operating your riding mower.

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