

# DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER

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## Safety & Operating Instructions



Please read instructions before operating machine

# THANK YOU!

And congratulations on your purchase of a new DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER!

We have done our utmost to ensure that your DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER will be one of the most trouble-free and satisfying pieces of equipment you have ever owned. Please let us know of any questions or problems you may have. We want to answer or correct them as quickly as possible. (When you do call, please have your serial number and/or order number handy—it will speed things up!) We also hope to hear from you on how much you like your new helper.

And, please tell your friends about your new DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER! Having DR<sup>®</sup> Owners spread the word about our products and our way of doing business is the best advertising we can have, and the best way to help us provide even better service in the years to come.

Thanks once again!



for all of us at  
Country Home Products, Inc.<sup>®</sup>

**SALES MANAGER**

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**DOCUMENTATION**

Written by: Ed Melen of EVM Technical Writing



Country Home Products, Inc.  
Meigs Road  
P.O. Box 25  
Vergennes, VT 05491

*Toll-free phone:* 1-800-DR-OWNER (376-9637)

*Fax:* 1-802-877-1213

*Web site:* [www.dr-owner.com](http://www.dr-owner.com)

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## Chapter 1: Introducing the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER

Thank you for the purchase of your new DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER.

This manual will help you set up and safely operate your new DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER. Careful adherence to the safety and operating instructions in this manual will ensure many years of productive use.

Please let us know if you have any questions or problems by contacting us via or our toll-free phone number. Our contact information is listed inside the front cover of this manual. When you call, please have your serial number or order number available so we can help you quickly.

### Conventions used in this manual



**WARNING!** The exclamation point within a triangle alerts you to essential operating, safety, and maintenance (servicing) instructions.

**Important!** This information is important in the proper use of your machine. Failure to follow this instruction could result in injury to you or damage to your mower.

**Tip:** This is a helpful hint to guide you in getting the most out of your mower.

**Tools Needed:** This indicates you will need a special tool to perform a maintenance function on your machine.

**Note:** This information may be helpful to you.

If you are ever unsure about an action you are about to take, contact Country Home Product's toll-free support at 1-800-DR-OWNER (376-9637).

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## Chapter 2: Safety Considerations







Taking the time to read and observe all safety instructions will ensure many years of productive use from your DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER and help you avoid injury. Please take a few moments to read the following guidelines for safely operating your new machine.

### Preparing to Use the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER

- Read these *Safety & Operating Instructions* and the engine manufacturer's owner's manual before you use the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER. Become familiar with the controls, engine and service recommendations to ensure the best performance from your machine.
- Inspect the area in which you will be working. Look for rocks, logs, sticks, rope, wire, garden tools, etc., and remove these objects before mowing. Mowing over these objects could damage the machine and cause injury.

### Safety Information Labels

Take some time to become familiar with the following standard safety cautions applicable to your mower. Replace damaged or missing safety labels immediately.

	Read the Safety and Operating Instructions.		Always wear safety glasses or goggles while operating the machine.
	Do not operate the machine near people or animals.		Keep body parts away from the mower blade.
	Remove all objects that could be thrown by the mower blade.		Use caution operating the machine on slopes. (#14823)

**WARNING: Add Oil Before Starting Engine**

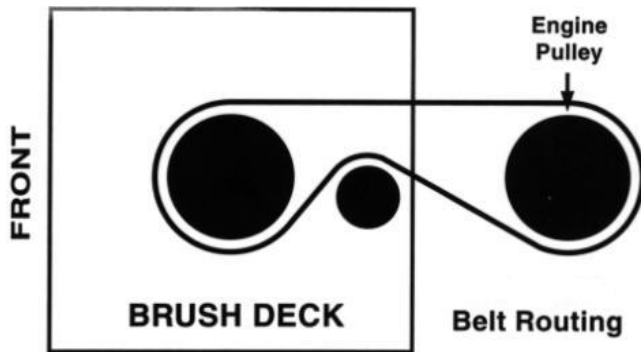
Make sure you add oil before starting the engine; the unit is shipped without oil. Fill the oil reservoir slowly to make sure you don't overfill it. (#12781)

**CAUTION: HOT SURFACE** 

Keep combustible substances away from the engine when it is hot. (#13684)



To avoid injury, keep your hands and feet away from the spinning blade. (#13649)



This label shows the proper routing of the blade belt. (#16437)

This label reminds you about the importance of reading and understanding the Safety & Operating Instructions manual and of paying attention to the safety warnings. (#16265)

## Protecting Yourself

- Always wear protective goggles while mowing to protect your eyes from possible thrown objects.
- Wear shoes with non-slip treads when using your DR<sup>®</sup> SCOUT™ FIELD and BRUSH MOWER. If you have safety shoes, we recommend wearing them. Do not use the machine while barefoot or wearing open sandals.
- Wear long pants while mowing.
- Avoid wearing loose clothing or jewelry, which might be caught on the mower's moving parts.
- Use hearing protection or earplugs to protect your hearing.
- We recommend wearing gloves while mowing.

## Operating the Machine Safely



**WARNING!** The items listed in this section will help you keep your DR<sup>®</sup> SCOUT™ FIELD and BRUSH MOWER running smoothly and, most importantly, prevent injury to yourself or others. Please review them carefully before starting your machine.

- Keep bystanders at least 100 feet away from your work area at all times. Objects can be thrown far from the mower and at great speeds. To be safe, do not operate the machine near small children or pets, and never allow children to operate the mower. Disengage the blade and stop the engine when another person approaches.
- Be sure all blade and wheel controls are DISENGAGED before attempting to start the engine. Engage and disengage the blade a few times to get used to it before mowing.
- NEVER remove the shields from the mower, or alter the deck in any way.
- Keep your hands and feet away from the blade, belts, chains, blade pulleys, and concealed areas while the engine is running. NEVER reach under the deck or grab hold of any part of the deck when the engine is running.
- ALWAYS shut off the engine and remove the spark plug wire before adjusting the machine. If you have to stop to remove grass or debris from the underside of the deck, ALWAYS disconnect the spark plug wire first.
- The exhaust area on the engine becomes very hot with use. Allow the engine to cool before doing maintenance or making adjustments.
- Keep combustible substances away from the engine when it is hot.
- When operating over uneven terrain and slopes, use EXTREME CAUTION to ensure solid and firm footing.
- Use the machine only in daylight or good artificial light.
- Use extra caution when mowing in wet or slippery conditions.

- **ALWAYS OPERATE THE MOWER FROM BEHIND.** Never pass or stand beside or in front of machine when the engine is running.
- Do not, under any conditions, remove, bend, cut, fit, weld, or otherwise alter standard parts on the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER. This includes all shields and guards. Modifications to your machine could cause personal injuries and property damage and will void your warranty.
- While using the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER, don't hurry or take things for granted. When in doubt about the equipment or your surroundings, stop the machine and take the time to look things over. Make sure that you have 100% control of the mower at all times.
- Never allow children or people who are unfamiliar with these instructions to use the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER.
- Do not operate the machine when under the influence of alcohol or medication.
- Watch for traffic when mowing near roadways.

## Safety with Gasoline-Powered Machines



**WARNING!** The items listed in this section will help you keep your DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER running smoothly and, most importantly, prevent injury to yourself or others. Please review them carefully before starting your machine.

- Do not run the engine in an enclosed area or without proper ventilation.
- Store all fuel in containers specifically designed for this purpose.
- Fill the gasoline tank outdoors with the engine off. Don't handle gasoline if you or anyone nearby is smoking, or if you're near anything that could cause it to ignite or explode.
- If you spill gasoline, do not attempt to start the engine. Move the machine away from the area of the spill and avoid creating any source of ignition until the gas vapors have dissipated. Wipe up any spilled fuel to prevent a fire hazard and properly dispose of the waste.
- Allow the engine to cool completely before storing in any enclosure. Never store the machine near an open flame or spark with gas in the tank.
- Do not change the engine governor settings or modify the engine speed.



## **A Note to All Users**

Under California law, and the laws of some other states, you are not permitted to operate an internal combustion engine using hydrocarbon fuels without an engine spark arrester. All DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWERS shipped to California and Washington State are provided with spark arresters. Failure of the owner / operator to maintain this equipment in compliance with state regulations is a misdemeanor under California law and may be in violation of other state and/or federal regulations. Contact your local fire marshal or forest service for specific information in your area.

## **Additional Information and Potential Changes**

Country Home Products, Inc. reserves the right to discontinue, change, and improve its products at any time without notice or obligation to the purchaser. The descriptions and specifications contained in this manual were in effect at printing. Equipment described within this manual may be optional. Some illustrations may not be applicable to your machine.

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## Chapter 3: Setting Up Your DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER

This chapter outlines a few simple steps you will need to follow to set up your new machine before you use it. It may be helpful to familiarize yourself with the controls and features on your mower by reviewing the picture in the next section before beginning the steps outlined in this chapter.

### DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER Controls and Features

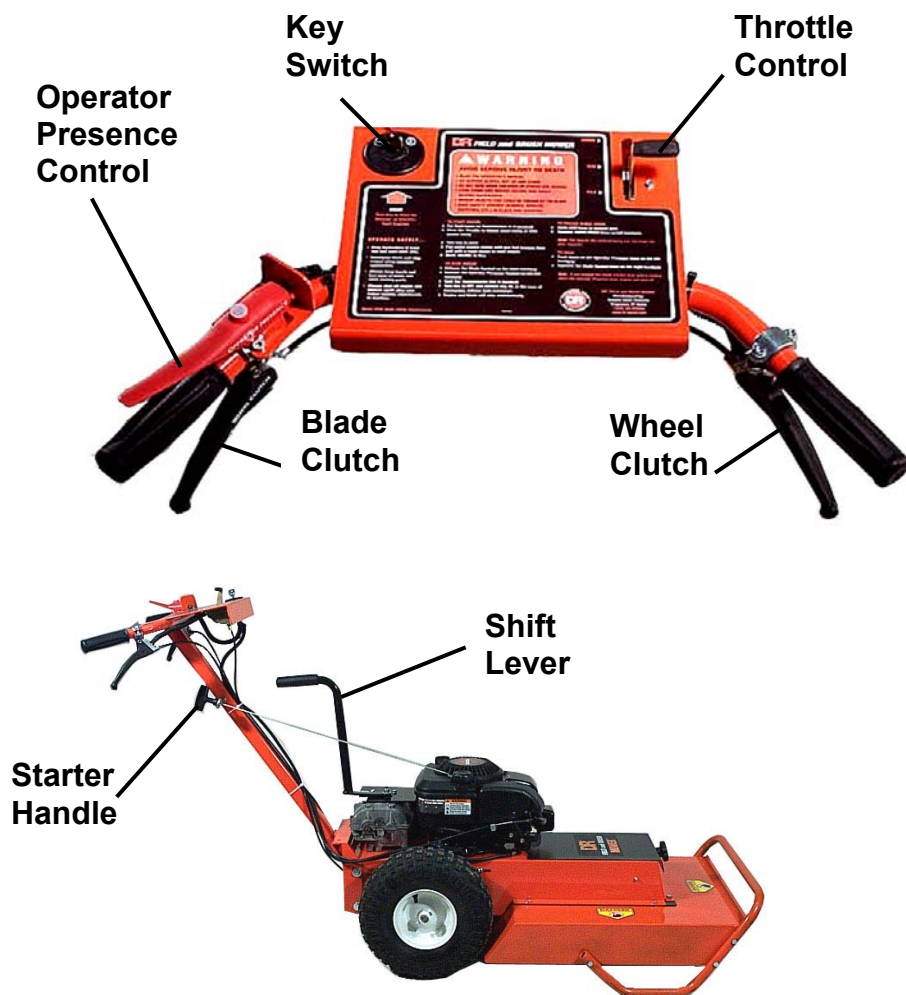


Figure 1

## Unpacking the Mower

### Tools & Supplies Needed:

- Screwdriver
- Knife
- Gloves
- Eye protection
- Metal shears



**WARNING!** Always wear eye protection when cutting the banding. The banding may have a lot of tension on it and may snap, striking you when cut. Always stand to one side when cutting the band.

1. Stand to one side and cut the banding.
2. Remove the top of the carton. Separate the stapled vertical cardboard ends from the pallet to access the pallet straps. Be careful of the staples.
3. Pry off the fasteners and cut any ties holding the machine to the pallet.

**Caution:** Wear gloves and be very careful when handling the deck. The blade is very sharp, and may spin as you maneuver the deck.

4. Roll the mower off the pallet. Do not discard your pallet and packaging material until you are fully satisfied with your machine.
5. Remove blade protector from blade. (*See caution note above*).

## Check the Tire Pressure

There should be 10 psi in each tire.

## Adding Oil and Gasoline

**⚠ WARNING!** You must add oil before starting the engine. This machine is shipped without oil. Traces of oil may be in the reservoir from factory testing, but **YOU MUST ADD OIL BEFORE STARTING THE ENGINE.** Fill the reservoir slowly checking the dipstick frequently to avoid overfilling.

**Important!** To get an accurate reading when checking the oil level:  
⇒ The machine should be on a level surface.  
⇒ The dipstick should be screwed down on Briggs & Stratton engines.

Engine Oil Capacity	
Briggs & Stratton Intek	20 oz. (0.60 L)

**Tip:** To avoid confusion, we recommend leaving the caps on the fuel and oil fills until you are ready to pour either gasoline or oil into the correct fill.

Use only SAE 30 high detergent oil. Other types of oil could cause problems operating your machine. Please refer to your engine manufacturer's owner's manual for detailed oil information.

1. Place the machine on a level surface and initially add 16 oz. (½ quart) of SAE 30 high detergent oil recommended by the engine manufacturer and wait one minute for the oil to settle. (Figure 2)
2. Check the dipstick and continue adding a few ounces of oil at a time, rechecking the dipstick until the oil reaches the fill mark. Be careful not to overfill. (Figure 2)
3. Fill the gas tank to within ¼ inch of the top with fresh, unleaded gas. See your engine manufacturer's owner's manual for more information.

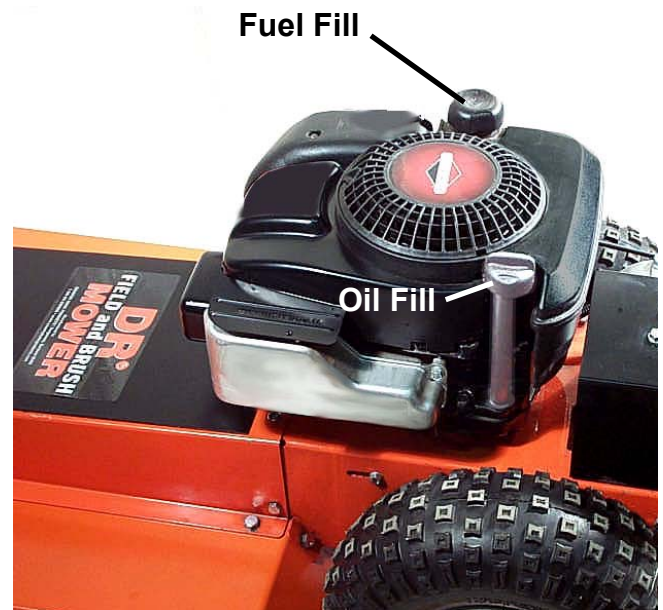


Figure 2

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## Chapter 4: Operating Your DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER

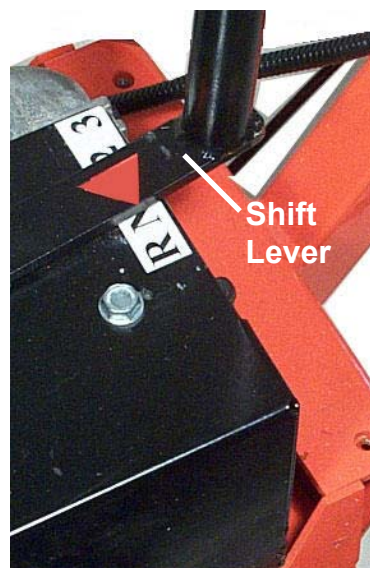
This chapter covers the procedures for starting and stopping your new DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER and discusses basic operation features.

### Before Starting the Engine

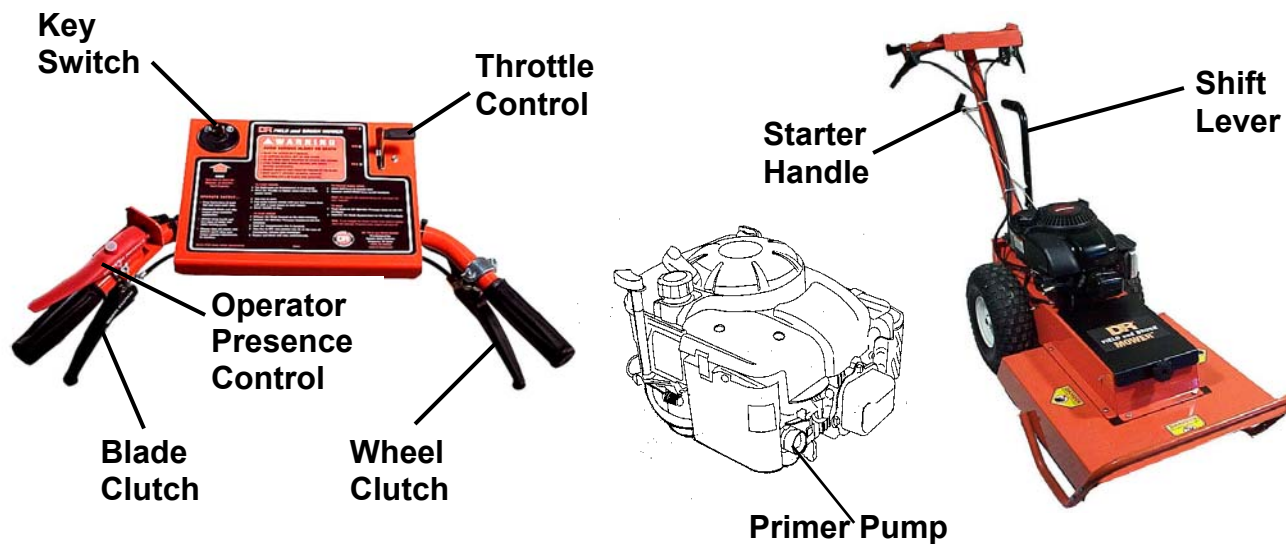
1. Check the oil level every time you use the machine. (See *Figure 2* on page 9)
2. Check the gas level. (*Figure 2*)

### Starting

1. Move the shift lever to N (Neutral) (*Figure 3*).
2. Move the throttle (*Figure 4*) to the RUN position.
3. Press the primer pump three times.
4. Turn the key (*Figure 4*) to START.
5. Grasp the recoil starter handle and slowly pull until you feel resistance. Let the cord retract a little bit, then pull the cord rapidly to start the engine. One or two pulls usually starts the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER (*Figure 4*).



*Figure 3*



*Figure 4*

## Engaging the Wheel Drive

The DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER has a three-speed forward transmission and single-speed reverse. Forward speeds range from 1.1 mph in first gear to 2.2 mph in third gear. Use the lower gears for mowing in thick, woody vegetation and the higher gears for wide-open areas and lighter vegetation, or as "travel gears." Reverse is ideal for maneuvering in tight spots.

**Note:** Always release the wheel clutch lever (*Figure 4*, on page 11) when shifting gears.

1. Move the shift lever (*Figure 4*) to any desired gear.
2. Gently squeeze the wheel clutch lever to engage a gear.
3. Release the clutch if you need to slow down or stop.

## Engaging the Blade

1. Hold down the operator presence lever. (*Figure 4*)
2. Squeeze the blade clutch lever. (*Figure 4*)

**Note:** If you squeeze the blade clutch lever before holding down the operator presence lever the engine will shut off.



**WARNING!** Always disengage the blade of the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER before shifting into reverse.

## Stopping the Blade

Release the blade clutch lever. (*Figure 4*)

**Note:** Releasing the operator presence lever (*Figure 4*) while the blade is engaged will cause the engine to shut off.

## Stopping the Engine

1. Stop the blade by releasing the blade clutch lever. (Figure 5)
2. Move the throttle control to the IDLE position.
3. Turn the key to the OFF position and remove it for safety.



Figure 5

## Obstacle Tips

Dealing with obstacles in the terrain is easy with your new DR® SCOUT™ FIELD and BRUSH MOWER. The following section explains how to approach most common obstacles.

**! WARNING!** The mower engine's power can potentially throw stones, sticks and other debris at great velocity, which could cause personal injury or property damage. **DO NOT** run the machine over gravel driveways or over loose stones or mulch with the mower blade spinning.

- Always check your work area before mowing and remove any debris that might tangle or damage the machine.

**! WARNING!** If you do run into debris and the mower becomes tangled, turn off the engine and disconnect the spark plug wire before attempting to untangle the machine.

**! WARNING!** **DO NOT** touch the exhaust areas when reaching for the spark plug—they are very hot.

## Slopes



**WARNING!** When operating over uneven terrain and slopes, use **EXTREME CAUTION** to ensure solid and firm footing.

1. We do not recommend using the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER continuously on slopes greater than 20 degrees. Doing so could deprive the engine of oil and cause it to overheat. (*Figure 6*)
2. Mow across slopes instead of up and down.
3. To avoid freewheeling, shift into a lower gear before going down a slope. Do not shift while on a slope.



*Figure 6*

## If the machine gets hung up

1. Disengage the blade. Do not try to free the machine from stumps or debris while the blade is engaged.
2. Stop the engine and disconnect the spark plug.
3. Try pushing down on the handlebars to lift the mowing deck over the obstacle.
4. Pull the machine away from the obstacle and clear any debris from the machine.
5. Reconnect the spark plug and restart the machine.



**WARNING!** If you need to leave the operating position to clear debris from the deck, turn the engine off and disconnect the spark plug wire.



**WARNING!** DO NOT touch the exhaust areas when reaching for the spark plug—they are very hot.



## Cutting Brush & Saplings

1. When cutting woody material, small saplings, etc., allow the machine to ride up and over material slowly. Adjust your forward speed to varying conditions. (*Figure 7*)
2. After cutting brush, etc., you may want to mow over it again to remove any remaining branches. It works best to mow from the trunk end toward the top as brush lies on the ground.



*Figure 7*

## Reverse

1. Be very careful of your footing when operating the machine in reverse. Know what's behind you and take your time.
2. Disengage the blade before shifting into reverse. Mow in the forward gears only, using reverse for maneuvering.
3. Shift into REVERSE.


**Tip:** If you find it difficult to shift into reverse, lightly "feather" the wheel clutch lever as you put the shift lever into reverse, then immediately release the clutch lever.

4. Gently squeeze the wheel clutch lever to start moving in reverse.



## Chapter 5: Maintaining the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER

Regular maintenance is the way to ensure the best performance and long life of your machine. Please refer to this manual and the engine manufacturer's owner's manual for maintenance procedures. Service intervals listed in the checklist below supercede those listed in the engine manufacturer's owner's manual.

 **WARNING!** Some of the following procedures require access to the underside of the machine. If you need to tip the machine back or on its side, you must first disconnect the spark plug wire, drain the oil and gas, and remove the air filter and Precleaner.

### Regular Maintenance Check List

**Note:** Service intervals shown are considered maximum under normal operating conditions. Increase frequencies under extremely dirty or dusty conditions.

Procedure	Before Each Use	Every 25 Hours	Every 100 Hours
Check Operator Presence Switch	▲		
Check Engine Oil Level	▲		
Check General Equipment Condition	▲		
Check Blade for Sharpness	▲		
Check Tire Pressure		▲	
Clean Air Filter & Precleaner		▲	
Change Engine Oil	1 <sup>st</sup> time 5 hours	▲	
Clean Engine Exterior & Cooling Fins		▲	
Check All Belt Tensions & Condition		▲	
Lubricate Chain & Clean around idlers		▲	
Replace Spark Plug			▲
Replace Air Filter & Precleaner			▲
Check cable connections		▲	

## Lubrication

Your DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER was lubricated at the Factory. The spindle, differential and transmission are lubricated for life and sealed at the factory. The operator needs to provide engine lubrication and lubricate the chain periodically.

### Tools & Supplies Needed:

- 9/16" wrench or socket (chain cover)
- FLUID FILM<sup>®</sup> or comparable lubricant

**⚠ WARNING!** Before performing any maintenance procedure, stop the engine and disconnect the spark plug wire.

1. The drive chain should be lubricated with FLUID FILM<sup>®</sup> lubricant or SAE 30 oil every 25 operating hours—more often if the machine is operated in extremely dusty or wet conditions. Remove the chain cover by first removing the shift lever attaching nut (Figure 8) and remove the shift lever.
2. Remove the two cover screws, remove the cover, lubricate the chain and replace the cover. (Figures 9 and 10)



Figure 8



Figure 9

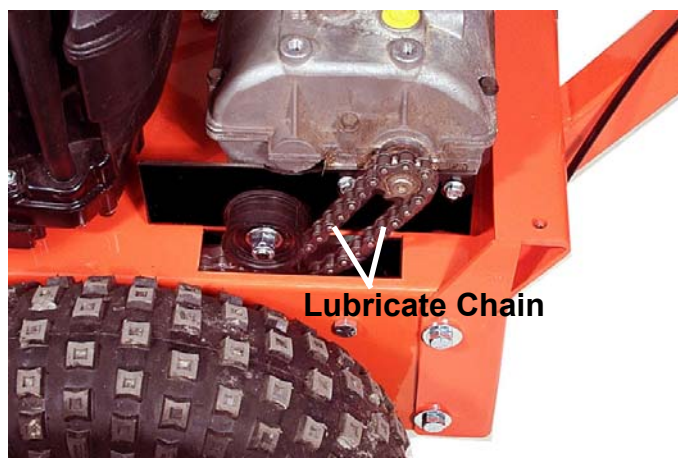


Figure 10

## Removing the Engine Oil



**WARNING!** Before performing any maintenance procedure, stop the engine and disconnect the spark plug wire.

### Tools & Supplies Recommended:

- Manual
  1. Remove the Oil Filler Cap and position a suitable oil receptacle beside the oil fill tube.
  2. Using the handle of the mower, tip the machine to the left and drain the oil out through the oil filler tube into the suitable receptacle.
  3. Replace the oil by following the instructions on page 9.
  
- Alternate Method
  1. Remove the Oil Fill Cap and vacuum the oil from the engine through the oil fill tube using a vacuum oil drainer.
  2. Replace the oil by following the instructions on page 9.

**Note:** If the oil is not to be reused, be sure to use environmentally safe disposal procedures in the disposing of the used oil.

## Removing and Replacing the Blade Belt

**! WARNING!** Before performing any maintenance procedure, stop the engine and disconnect the spark plug wire.

**Important!** Use only DR<sup>®</sup> belts on your machine. They have been thoroughly tested and proven for many hours of use.

### Tools & Supplies Needed:

- 9/16" wrench or socket (spring nut)
  - 1/2" wrench or socket (guide bolt)
  - Gloves
1. Remove the belt guard by unscrewing the knob, pull the guard forward and lift to remove it. (Figure 11)
  2. Remove the top nut from the clutch lever pivot bolt. Remove the idler tension spring from the shaft by gripping the spring with your gloved hand, pulling the spring toward the shaft and lifting it over the shaft. (Figure 12)
  3. Remove the clutch anti-rotation bracket by removing the mounting bolt from side of the machine. (Figure 12)
  4. Remove the clutch return spring by unhooking from the eyebolt. (Figure 12)
  5. Remove the clutch spring from the clutch tab by rotating the tab toward the rear of the machine (clockwise) to relieve tension and unhook the spring from the tab. (Figure 12)
  6. Remove the belt from the engine pulley below the machine and then remove it from around the clutch. (Figure 12)
  7. To mount the belt, follow the above procedure in reverse order.



Figure 11

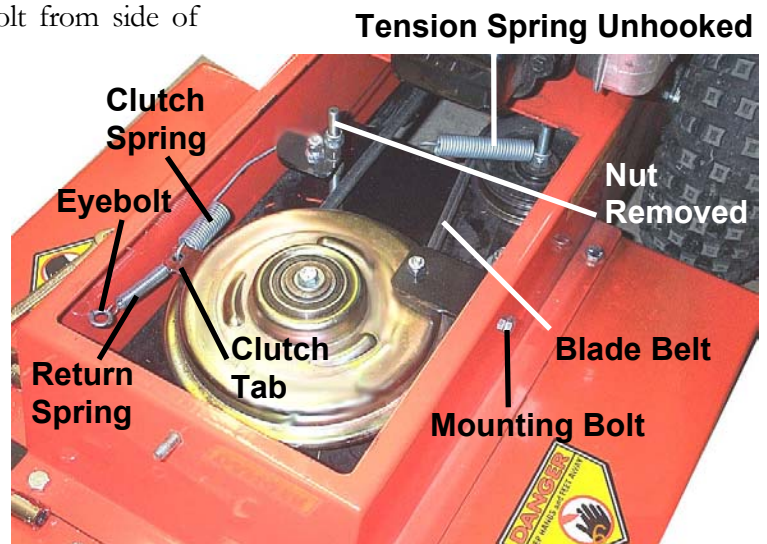


Figure 12

## Removing and Replacing the Drive Belt

**⚠ WARNING!** Before performing any maintenance procedure, stop the engine and disconnect the spark plug wire.

### Tools Needed:

- 7/16" wrench or socket
- 1/2" wrench or socket
- Gloves

1. Drain the gas by running the engine until the gas tank is empty or by the use of a siphon.
2. Drain the engine oil. (See page 18)
3. Loosen the two outside belt retainer bolts on the right and left side of the machine near the wheels and slide them forward. (Figure 15)
4. Release the clutch control cable from the handle by pulling back and down. (Figure 13)
5. Remove the blade belt following the instructions as outlined on page 19.
6. With the machine on its side, remove the two bolts and the clutch cable bracket and the third belt guide bolt to the right of the pulley. (Figure 14)
7. Remove the belt from the pulleys and re-install the new belt by reversing the above procedure.
8. Check the wheel clutch adjustment. See page 22.

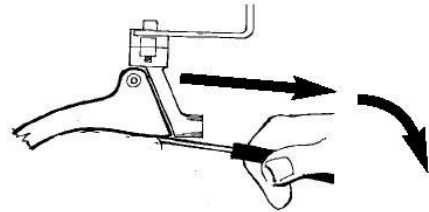


Figure 13

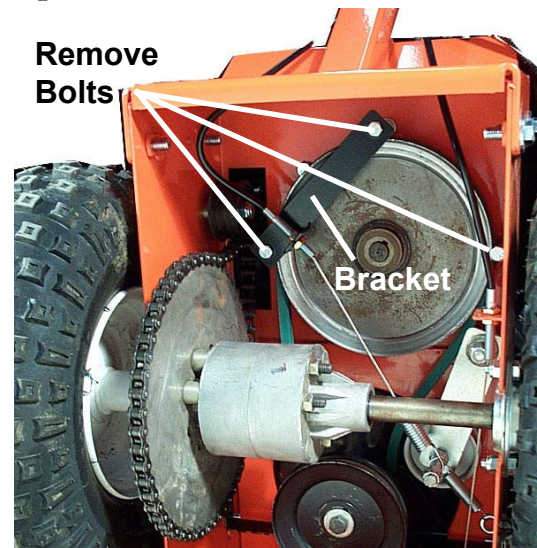


Figure 14



Figure 15

**Important!** Be certain to fill with oil before starting the engine. See page 9.

## Removing and Replacing the Blade

**! WARNING!** Before performing any maintenance procedure, stop the engine and disconnect the spark plug wire.

### Tools Needed:

- 15/16" wrench or socket
  - Air wrench if available
  - Wear gloves
  - 1 x 4 x 6 to brace the blade
1. Block the blade with a piece of wood between the blade and the skid on the side of the deck. (Figure 16)
  2. Remove the blade bolt (right-hand, regular thread) and washer.



Figure 16

**! WARNING!** Use caution when pushing or pulling the wrench next to the blade. Wear gloves, if the wrench slips off the nut, you may be seriously injured.

3. Remove the blade.
4. Mount the new blade, washer and bolt.

**Note:** Be sure the blade is seated completely over the small ridge in the spindle hub before tightening the lock nut.



## Adjusting the Wheel Clutch

**! WARNING!** Before performing any maintenance procedure, stop the engine and disconnect the spark plug wire.

**Note:** When properly adjusted, tension on the wheel clutch lever should increase when the lever is about parallel to (almost touching) the handlebar grip.

### Tools Needed:


- (2) 1/2" wrenches
1. Find the wheel clutch adjustment on the clutch bracket on the underside of the machine. (*Figure 17*)
  2. Loosen the nut on the front (threaded) side of the bracket by 1/8" to 1/4", and then tighten the nut on the back against the bracket. Check the tension on the clutch lever and repeat the adjustment as needed.

**! WARNING!** If clutch is over tightened, machine may lurch forward when shifting into gear. Use caution when shifting into gear.



*Figure 17*

## Removing and Replacing the Drive Chain

 **WARNING!** Before performing any maintenance procedure, stop the engine and disconnect the spark plug wire.

### Tools Needed:

- 1/2" wrench or socket (chain cover)
  - 9/16" wrench or socket (shift lever)
  - Flat-head screwdriver
  - Pliers
1. Place the gearshift lever in NEUTRAL and remove the chain cover by removing the shift lever attaching nut, shift lever and the two cover screws. (Figure 18)
  2. Locate (by rotating the drive sprocket) and remove the master chain link. (Figure 19) First remove the lock clip (A) with a flat-head screwdriver and pliers. You'll need to lift one side and rotate the clip to get it off the master link. Next, remove the side plate (B). Then remove the master chain link.
  3. Slowly feed the chain out.
  4. Mount the new chain as shown in Figure 20.
  5. Add the master chain link.
  6. Replace the chain cover and tighten the lock nut and the two cover screws.



Figure 18

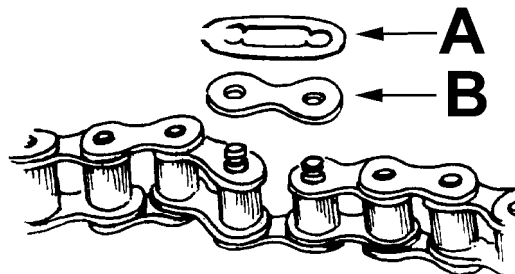


Figure 19

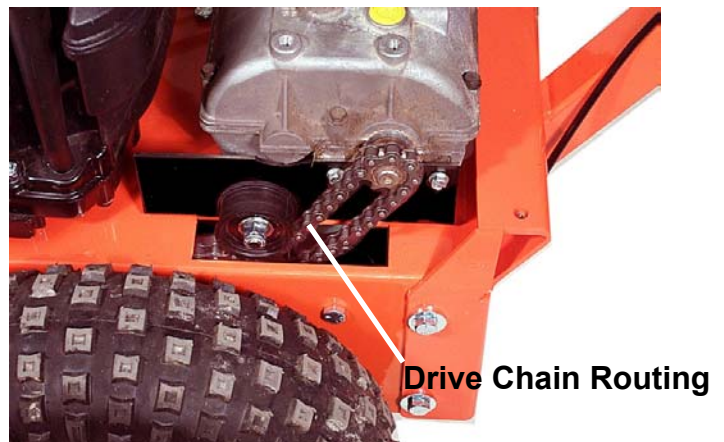


Figure 20

## Adjusting the Blade Engagement Cable

**! WARNING!** Before performing any maintenance procedure, stop the engine and disconnect the spark plug wire.

**Note:** If the blade won't cut, or seems to slip in heavy material, check the blade engagement cable. When properly adjusted, tension on the blade engagement lever should decrease when the lever is about parallel to (almost touching) the handlebar grip.

**Important!** Be sure the blade engagement lever does not stay in the engaged position without the operator holding the blade clutch lever.

### Tool Needed:

- 1/2" open-end wrench

Under the machine, on the right hand side, there is a bracket for adjusting the blade engagement cable. (*Figure 21*) To tighten the cable, loosen the nut on the front (threaded) side of the bracket by 1/8" to 1/4", and then tighten the nut on the back against the bracket. Check the tension on the blade lever and repeat the adjustment as needed.

### Blade Engagement Cable Adjustment



*Figure 21*

## Replacing the Blade Clutch Springs

**! WARNING!** Before performing any maintenance procedure, stop the engine and disconnect the spark plug wire.

### Tools Needed:

- 1/2" open-end wrench
- 9/16" open-end wrench
- Gloves

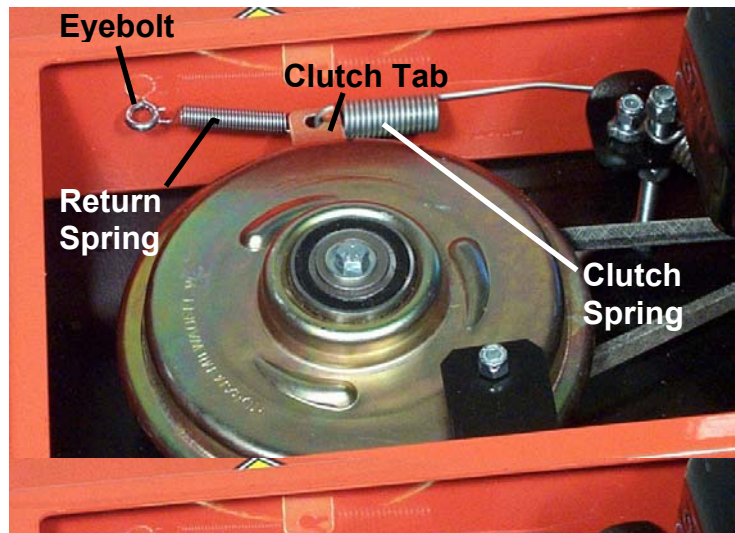
Remove the belt guard by unscrewing the knob, pull the guard forward and lift to remove it. (See *Figure 11* on page 19)

### Return Spring

1. Remove one end of the return spring from the eyebolt on the machine frame. (*Figure 22*)
2. Push the clutch tab toward the rear (clockwise) and unhook the clutch spring.
3. Unhook the return spring from the clutch spring beneath the clutch tab. (*Figure 23*)
4. Install the new return spring by reversing the above procedure.

### Clutch Spring

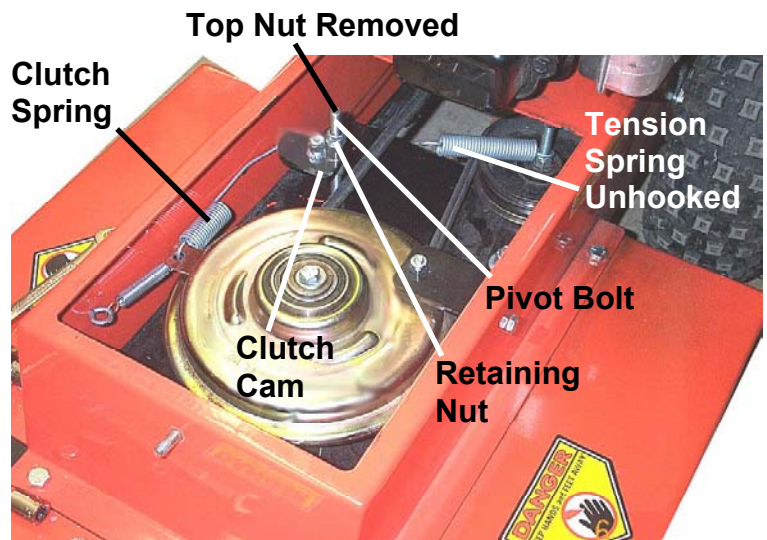
1. Remove the return spring as above.
2. Remove the top nut from the clutch cam pivot bolt. (*Figure 24*)
3. With a gloved hand, remove the idler tension spring from the pivot bolt by pulling the spring toward the bolt and lifting it off (*Figure 24*).



*Figure 22*




*Figure 23*



*Figure 24*

4. Remove the clutch cam retaining nut from the clutch cam pivot bolt and lift the cam off the pivot bolt. (Figure 24)
5. Remove the clutch spring retaining nut from beneath the clutch cam and remove the clutch spring from the cam.
6. Install the new spring by reversing the above procedure.
7. Replace the belt guard. (See Figure 11 on page 19)

## Removing the Wheels

 **WARNING!** Before performing any maintenance procedure, stop the engine and disconnect the spark plug wire.

### Tool Needed:

- (2) 7/16" wrenches or sockets
1. Block the machine so the wheel to be removed is off the ground.
  2. While holding the shear bolt head, remove the shear bolt nut, remove the shear bolt and slide the wheel off. (Figure 25)
  3. Do not over tighten the shear bolt nut when reinstalling the wheels.



Figure 25

## End of Season & Storage



**WARNING!** Before performing any maintenance procedure, stop the engine and disconnect the spark plug wire.

**Note:** Please refer to the engine manufacturer's owner's manual for engine-specific procedures.

- Change the oil.
- If your DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER will be idle for more than 30 days, we recommend using a gas stabilizer. This will prevent sediment from gumming up the carburetor. If there is dirt or moisture in the gas or tank, remove it by draining the tank. Completely fill the tank with fresh, unleaded gas and add the appropriate amount of stabilizer or gasoline additive. Run the engine for a short time to allow the additive to circulate.
- Remove the spark plug and pour about 1 ounce of motor oil into the cylinder hole. Replace the plug and pull the recoil starter rope until you feel strong resistance. This will coat the piston and seat the valves to prevent moisture buildup.
- Clean/replace the air filters.
- Clean dirt and debris from the cylinder head cooling fins, blower housing, debris screen and muffler area of the engine.
- Remove any wrapped weeds from the blade bearing housing. Clean grass and debris from the top and underneath the mower deck with a stiff brush.
- Check the blade for nicks and wear. Remove the blade and sharpen, or have it professionally sharpened if needed.

## Chapter 6: Troubleshooting and Warranty

Most problems are easy to fix. Consult the troubleshooting table for common problems and their solutions. If you continue to experience problems, call Country Home Products, Inc. for support.

### Troubleshooting Table



**WARNING!** Before performing any maintenance procedure, stop the engine and disconnect the spark plug wire.

SYMPTOM	POSSIBLE CAUSE
<i>Recoil will not pull out or is difficult to pull.</i>	<ul style="list-style-type: none"> <li>⇒ Check that the blade hand control lever is properly adjusted and in the released position.</li> <li>⇒ Check the engine oil level, the engine may be seized.</li> <li>⇒ There may be an oil compression lock in the cylinder. Take out the spark plug, hold a rag over the spark plug hole and pull the recoil cord several times to blow out any oil in the cylinder. Wipe off the spark plug and reinsert it.</li> <li>⇒ The recoil may be broken or jammed. Try to turn the engine pulley by hand, with the spark plug wire off. If it turns, the recoil is broken or jammed. Call <b>1(800) DR-OWNER (376-9637)</b> for assistance.</li> </ul>
<p><i>The engine won't start.</i></p> <p><i>(Please refer to the engine manufacturer's owner's manual for engine-specific procedures.)</i></p>	<ul style="list-style-type: none"> <li>⇒ Is the key in the START position?</li> <li>⇒ Are you using fresh, clean gas? If the gas is old, change it. Use a fuel stabilizer if you keep gas longer than one month.</li> <li>⇒ Check the throttle adjustment and cable travel.</li> <li>⇒ Is the blade engagement hand control lever down? It should be.</li> <li>⇒ Is the spark plug clean? If the spark plug is dirty or cracked, change it. If it's oily, leave it out, hold a rag over the plug hole and pull the recoil cord several times to blow out any oil in the cylinder, then wipe off the plug and reinsert it.</li> <li>⇒ If your engine still won't start, call <b>1(800) DR-OWNER (376-9637)</b> for assistance.</li> </ul>

Symptom	Possible Cause
<p><i>The engine lacks power or is not running smoothly.</i></p> <p><i>(Please refer to the engine manufacturer's owner's manual for engine-specific procedures.)</i></p>	<ul style="list-style-type: none"> <li>⇒ Check the throttle travel and adjustment.</li> <li>⇒ Is the air filter clean? If it's dirty, change it following the procedure in the engine manufacturer's owner's manual.</li> <li>⇒ Is the spark plug clean? If it's fouled or cracked, change it. If it's oily, leave it out, hold a rag over the plug hole and pull your recoil cord several times to blow out any oil in the cylinder, then wipe off the plug and reinsert it.</li> <li>⇒ Are you using fresh, clean unleaded gas? If it's old, change it. Use a fuel stabilizer if you keep gas longer than one month.</li> <li>⇒ Does your engine have the right amount of clean oil? If it's dirty, change it following the procedure in the engine manufacturer's owner's manual.</li> <li>⇒ Check the oil level and adjust as needed.</li> <li>⇒ If your engine still lacks power, call <b>1(800) DR-OWNER (376-9637)</b> for assistance.</li> </ul>
<p><i>Engine smokes.</i></p>	<ul style="list-style-type: none"> <li>⇒ Check the oil level and adjust as needed.</li> <li>⇒ You may be operating the machine on too great an incline. (See SLOPES section on Page 13)</li> <li>⇒ Check the air filter and clean or replace if needed.</li> <li>⇒ You may be using the wrong oil—too light for the temperature. Refer to your Engine Manufacturer's Owner's Manual for detailed information.</li> <li>⇒ Clean the cooling fins if they're dirty.</li> <li>⇒ If the engine still smokes, call <b>1(800) DR-OWNER (376-9637)</b> for assistance.</li> </ul>
<p><i>Machine is hard to get into reverse.</i></p>	<ul style="list-style-type: none"> <li>⇒ If you find it difficult to shift into reverse, lightly pull the clutch lever as you pull the shift lever into reverse then immediately release the clutch lever. (See Page 14)</li> <li>⇒ If the difficulty persists, call <b>1(800) DR-OWNER (376-9637)</b> for assistance.</li> </ul>
<p><i>The belt frays or rolls over the pulley.</i></p>	<ul style="list-style-type: none"> <li>⇒ A pulley groove may be nicked. Check the belt for wear and hard spots. File off any nicks on the pulley.</li> <li>⇒ The belt may be stretched. Replace it.</li> </ul>



Symptom	Possible Cause
<i>Blade vibrates when engaged.</i>	<p>⇒ The blade may not be seated properly on the hub. Loosen the blade nut, reset the blade and tighten the nut.</p> <p>⇒ The spindle bearings may be bad.</p> <p>⇒ Call <b>1(800) DR-OWNER (376-9637)</b> for assistance.</p>
<i>The blade is not cutting or is loose.</i>	<p>⇒ The blade may not be seated properly on the hub. Loosen the blade nut, reset the blade and tighten the nut.</p> <p>⇒ Sharpen the blade if it is dull or nicked.</p>
<i>Wheels pulling left or right.</i>	<p>⇒ Check the tire pressure. There should be 14 psi in each tire.</p>

## Notes



# DR<sup>®</sup> POWER EQUIPMENT

## DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER 1-Year Limited Warranty

### Terms and Conditions

The DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER is warranted for one (1) year against defects in materials or workmanship when put to ordinary and normal consumer use; ninety (90) days for any other use. The engine is warranted separately by the engine manufacturer.

For the purposes of all the above warranties, "ordinary and normal consumer use" refers to non-commercial residential use and does not include misuse, accidents or damage due to inadequate maintenance.

Country Home Products, Inc. certifies that the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER is fit for ordinary purposes for which a product of this type is used. Country Home Products, Inc. however, limits the implied warranties of merchantability and fitness in duration to a period of one (1) year in consumer use, ninety (90) days for any other use.

The 1-Year Limited Warranty on the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER starts on the date the machine ships from our factory. The 1-Year Limited Warranty is applicable only to the original owner.

The warranty holder is responsible for the performance of the required maintenance as defined by the manufacturer's owner's manuals. The warranty holder is responsible for replacement of normally wearing parts such as the belts, bearings and cables. Attachments and accessories to the machine are not covered by this warranty.

During the warranty period, the warranty holder is responsible for the machine transportation charges, if required. During the warranty period, warranty parts will be shipped by standard method at no charge to the warranty holder. Expedited shipping of warranty parts is the responsibility of the warranty holder.

SOME STATES DO NOT ALLOW LIMITATIONS ON THE LENGTH OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

Country Home Products, Inc. shall not be liable under any circumstances for any **incidental or consequential damages or expenses** of any kind, including, but not limited to, cost of equipment rentals, loss of profit, or cost of hiring services to perform tasks normally performed by the DR<sup>®</sup> SCOUT<sup>™</sup> FIELD and BRUSH MOWER.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

### Customer Service Hotline

Country Home Products, Inc.'s objective is to have 100% satisfied customers. For that reason, we operate a 6-day-a-week Technical Service Department for our Owners. You can access a Representative by dialing our TOLL-FREE Hotline at 1-800-DR-OWNER (376-9637). The sole job of our well-trained and friendly folks is to ensure that you get any help you need in a timely fashion. They are there to answer all your questions including: (1) inquiries on any of the above warranties, (2) inquiries about replacement parts, or (3) your questions regarding service, maintenance and operation.

Our Customer Service Representatives will also be happy to answer any of your questions regarding the separate warranties on all engines. However, to obtain service, repair or replacement of any engine within the time period covered by the manufacturer's limited warranty, follow the instructions and warranty information specifically pertaining to those items provided by their separate manufacturers.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

## Daily Checklist for the DR® SCOUT™ FIELD and BRUSH MOWER

To help maintain your DR® for optimum performance, we recommend you follow this checklist each time you use your machine.

- OIL: With the machine on a level surface, remove the oil fill cap and check the oil level. Fill the reservoir according to the dipstick with SAE30 HD motor oil.
- GAS: Fill the gas tank with fresh, unleaded gasoline.
- ENGINE: It is very important to keep the engine clean. Remove grass and other debris from the engine cooling fins and debris guard. A dirty engine retains heat and can cause damage to internal engine components.
- BELTS: Check the belts for wear, proper alignment and tension.
- BLADE: Check the blade for tightness, nicks and wear. Remove any wrapped weeds and grass from the blade bearing housing to prevent buildup.



COUNTRY HOME PRODUCTS, Inc.

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**MEIGS ROAD, P.O. BOX 25, VERGENNES, VERMONT 05491**

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