

DR[®] SCOUT[™] FIELD and BRUSH MOWER



SAFETY & OPERATING INSTRUCTIONS



! WARNING!

READ AND UNDERSTAND THIS MANUAL AND ALL INSTRUCTIONS BEFORE OPERATING THIS MOWER.

THANK YOU!

Congratulations on your purchase of a new DR SCOUT FIELD and BRUSH MOWER!

We have done our utmost to ensure that your DR SCOUT 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 you may have. We want to answer them as quickly as possible. When you do call, please have your serial number and/or order number handy. **For technical assistance, please call Toll-Free 1-800-DR-OWNER (376-9637) and one of our Technical Support Representatives will be happy to help you.** We also hope to hear from you on how much you like your new helper.

In addition, please tell your friends about your new DR SCOUT FIELD and BRUSH MOWER! Having DR 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.

SALES MANAGER

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DR® Power Equipment
A division of Country Home Products®
127 Meigs Road
Vergennes, VT 05491

Toll-Free phone: 1-800-DR-OWNER (376-9637)
Fax: 1-802-877-1213
Web site: www.dr-owner.com

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INTRODUCING THE DR SCOUT FIELD and BRUSH MOWER

This manual will help you set up and safely operate your new DR SCOUT 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 of any questions you may have. We want to answer them as quickly as possible. When you do call, please have your serial number and/or order number handy. **For technical assistance, please call Toll-Free 1-800-DR-OWNER (376-9637) and one of our Technical Support Representatives will be happy to help you.**

Conventions used in this manual

WARNING!

THIS INDICATES A HAZARDOUS SITUATION, WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.

CAUTION!

THIS INDICATES A HAZARDOUS SITUATION, WHICH, IF NOT AVOIDED, COULD RESULT IN MINOR OR MODERATE INJURY.

NOTICE!

THIS INFORMATION IS IMPORTANT IN THE PROPER USE OF YOUR MACHINE. FAILURE TO FOLLOW THIS INSTRUCTION COULD RESULT IN DAMAGE TO YOUR MACHINE OR PROPERTY.

Tip: This is a helpful hint to guide you in getting the most out of your DR SCOUT FIELD and BRUSH MOWER.

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

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

If you are ever unsure about an action you are about to take, don't do it. Contact Country Home Products' Toll-Free support at 1-800-DR-OWNER (376-9637) for help or information.

GENERAL SAFETY RULES

WARNING!

READ THIS *SAFETY & OPERATING INSTRUCTIONS* MANUAL BEFORE YOU USE THE DR SCOUT FIELD AND BRUSH MOWER. BECOME FAMILIAR WITH THE SERVICE RECOMMENDATIONS TO ENSURE THE BEST PERFORMANCE FROM YOUR MOWER.

Labels

Your DR SCOUT FIELD and BRUSH MOWER carries prominent labels as reminders for its proper and safe use. Shown below are copies of all the labels that appear on the equipment. Take a moment to study them and make a note of their location on your DR SCOUT FIELD and BRUSH MOWER as you assemble and *before* you operate the machine. Replace damaged or missing safety and information labels immediately. (#148231)



Read the *Safety & Operating Instructions* Manual.



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.



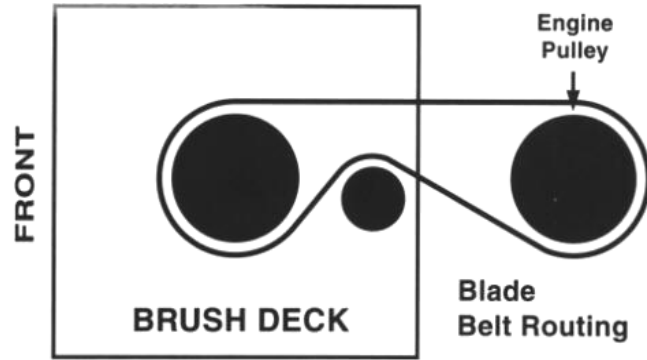
Make sure you add oil before starting the Engine; the unit is shipped without oil. Fill the oil reservoir slowly to make sure you do not overfill it. (#127811)



Keep combustible substances away from the engine when it is hot. (#136831)



To avoid injury, keep your hands and feet away from the spinning blade. (#136491)



This label shows the proper routing of the Drive Belt. (#164371)

DR® FIELD and BRUSH MOWER			
<p>OPERATE SAFELY</p> <p>Keep bystanders at least 100 feet from work area.</p> <p>Disengage blade and stop engine when someone approaches.</p> <p>Always keep hands and feet clear of blade and other moving parts.</p> <p>Always shut off engine and remove spark plug wire before making adjustments to machine.</p>	<p>TO START ENGINE</p> <ul style="list-style-type: none"> Put Shift Lever on Transmission in N (neutral). Move the Throttle to RUN. Push Primer 3 Times (Cold Start). Turn key to START position. Pull recoil handle slowly until you feel tension, then pull with a rapid stroke to start engine. 	<p>TO ENGAGE WHEEL DRIVE</p> <ul style="list-style-type: none"> Move shift lever to desired gear. Squeeze Wheel Clutch lever on right handgrip. <p><i>Note: The heavier the material being cut, the lower the gear required.</i></p>	
	<p>TO STOP ENGINE</p> <ul style="list-style-type: none"> Release the Blade Control on the left handgrip. Release the Operator Presence Control on the left handgrip. Turn key to OFF and remove key. Or, in the case of emergency, release both handgrips. Blade will stop automatically. 	<p>TO MOW</p> <ul style="list-style-type: none"> Push down on the Operator Presence lever on the left handgrip. Squeeze the Blade Control lever on the left handgrip. <p><i>Note: If you engage the Blade Control lever before holding down the Operator Presence lever, engine will shut off.</i></p>	
<p>DR® POWER EQUIPMENT A division of Country Home Products 127 Meigs Road, Vergennes, VT 05491 1-888-DR-OWNER www.DRpower.com</p>			

This label reminds you operate the machine safely and provides helpful operating information. (#225851)



(#211651)

! WARNING!

AVOID SERIOUS INJURY OR DEATH

- READ THE OPERATOR'S MANUAL
- GO ACROSS SLOPES, NOT UP AND DOWN
- DO NOT MOW WHEN CHILDREN OR OTHERS ARE AROUND
- LOOK DOWN AND BEHIND BEFORE AND WHILE MOVING BACKWARDS
- REMOVE OBJECTS THAT COULD BE THROWN BY THE BLADE
- KEEP SAFETY DEVICES (GUARDS, SHIELDS, SWITCHES, ETC.) IN PLACE AND WORKING

211641

This label reminds you about the importance of reading and understanding the *Safety & Operating Instructions* Manual and of paying attention to the safety warnings. (#211641)

Protecting Yourself and Those Around You

WARNING!

THIS IS A HIGH-POWERED MACHINE, WITH MOVING PARTS OPERATING WITH HIGH ENERGY AT HIGH SPEEDS. YOU MUST USE PROPER CLOTHING AND SAFETY GEAR WHEN OPERATING THIS MACHINE TO PREVENT OR MINIMIZE THE RISK OF SEVERE INJURY. THIS MACHINE CAN CUT, AND SEVER PARTS OF YOUR BODY IF THEY BECOME IN CONTACT WITH THE MOVING BLADE. ALWAYS TAKE THE FOLLOWING PRECAUTIONS WHEN OPERATING THIS MACHINE:

- ALWAYS WEAR PROTECTIVE GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS WHILE MOWING TO PROTECT YOUR EYES FROM POSSIBLE THROWN DEBRIS.
 - WEAR SHOES WITH NON-SLIP TREADS WHEN USING YOUR DR 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.
 - AVOID WEARING LOOSE CLOTHING OR JEWELRY, WHICH WILL CATCH ON THE MOWER'S MOVING PARTS.
 - WE RECOMMEND WEARING GLOVES WHILE MOWING. BE SURE YOUR GLOVES FIT PROPERLY AND DO NOT HAVE LOOSE CUFFS OR DRAWSTRINGS.
-

Operating the Mower Safely

WARNING!

THIS IS A HIGH-POWERED MACHINE, WITH MOVING PARTS OPERATING WITH HIGH ENERGY AT HIGH SPEEDS. YOU MUST OPERATE THE MACHINE SAFELY. UNSAFE OPERATION CAN CREATE A NUMBER OF HAZARDS FOR YOU, AS WELL AS ANYONE ELSE IN THE NEARBY AREA. ALWAYS TAKE THE FOLLOWING PRECAUTIONS WHEN USING THIS MACHINE:

- NEVER ALLOW PEOPLE WHO ARE UNFAMILIAR WITH THESE INSTRUCTIONS TO USE THE DR SCOUT FIELD AND BRUSH MOWER.
- KEEP BYSTANDERS AT LEAST 100 FEET AWAY FROM YOUR WORK AREA AT ALL TIMES. THE MOWER CAN THROW OBJECTS FAR 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 OR PET APPROACHES.
- CLEAR THE AREA OF OBJECTS SUCH AS ROCKS, TOYS, WIRE, BONES, STICKS ETC., WHICH COULD BE PICKED UP AND THROWN BY THE BLADE.
- 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.
- 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.

! WARNING!

- ALWAYS SHUT OFF THE ENGINE WHENEVER YOU LEAVE THE MACHINE. 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 OPERATING OVER UNEVEN TERRAIN AND SLOPES, USE EXTREME CAUTION TO ENSURE SOLID AND FIRM FOOTING. KEEP A FIRM HOLD ON THE HANDLEBARS AND WALK, NEVER RUN.
 - STOP THE BLADE WHEN CROSSING GRAVEL DRIVES, WALKS, OR ROADS.
 - USE EXTRA CAUTION WHEN MOWING IN WET OR SLIPPERY CONDITIONS.
 - ALWAYS OPERATE THE MOWER FROM BEHIND. NEVER PASS OR STAND ON THE DISCHARGE (RIGHT) SIDE OR IN FRONT OF MACHINE WHEN THE ENGINE IS RUNNING.
 - DO NOT PULL THE MOWER BACKWARDS UNLESS ABSOLUTELY NECESSARY. LOOK DOWN, AND BEHIND BEFORE AND WHILE MOVING BACKWARDS.
 - DO NOT, UNDER ANY CONDITIONS, REMOVE, BEND, CUT, FIT, WELD, OR OTHERWISE ALTER STANDARD PARTS ON THE DR SCOUT 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.
 - IF THE MACHINE STARTS TO MAKE AN UNUSUAL NOISE OR VIBRATION, IMMEDIATELY SHUT OFF THE ENGINE, DISCONNECT THE SPARK PLUG WIRE, AND ALLOW ALL MOVING PARTS TO COME TO A COMPLETE STOP. VIBRATION IS GENERALLY A WARNING OF TROUBLE. INSPECT FOR CLOGGING OR DAMAGE. CLEAN AND REPAIR AND/OR REPLACE DAMAGED PARTS.
 - WHILE USING THE DR SCOUT FIELD AND BRUSH MOWER, DO NOT 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.
 - DO NOT OPERATE THE MACHINE WHEN UNDER THE INFLUENCE OF ALCOHOL OR MEDICATION.
 - WATCH FOR TRAFFIC WHEN MOWING NEAR ROADWAYS.
 - USE THE MACHINE ONLY IN DAYLIGHT.
-

Slope Operation

WARNING!

SLOPES ARE A MAJOR FACTOR RELATED TO SLIP AND FALL ACCIDENTS, WHICH CAN RESULT IN SEVERE INJURY. ALL SLOPES REQUIRE CAUTION. IF YOU FEEL UNEASY ON A SLOPE, DO NOT MOW IT. ALWAYS TAKE THE FOLLOWING PRECAUTIONS WHEN USING THIS MACHINE ON SLOPES:

ALWAYS:

- MOW ACROSS THE FACE OF SLOPES; NEVER UP AND DOWN. EXERCISE EXTREME CAUTION WHEN CHANGING DIRECTION ON SLOPES.
- REMOVE OBJECTS SUCH AS ROCKS, TREE LIMBS ETC.
- WATCH FOR HOLES, RUTS, OR BUMPS. TALL GRASS CAN HIDE OBSTACLES.

NEVER:

- NEVER MOW NEAR DROP-OFFS, DITCHES, OR EMBANKMENTS. YOU COULD LOSE YOUR FOOTING OR BALANCE.
 - NEVER MOW ON SLOPES GREATER THAN 20 DEGREES OR ANY EXCESSIVELY STEEP SLOPES.
 - NEVER MOW ON WET SLOPES. REDUCED TRACTION COULD RESULT IN SLIPPING.
-

Safety for Children

WARNING!

TRAGIC ACCIDENTS CAN OCCUR IF THE OPERATOR IS NOT ALERT TO THE PRESENCE OF CHILDREN. CHILDREN ARE OFTEN ATTRACTED TO THE MOWER AND THE MOWING ACTIVITY. NEVER ASSUME THAT CHILDREN WILL REMAIN WHERE YOU LAST SAW THEM.

- KEEP CHILDREN OUT OF THE MOWING AREA AND UNDER THE WATCHFUL CARE OF A RESPONSIBLE ADULT.
 - BE ALERT AND TURN THE MOWER OFF IF CHILDREN ENTER THE WORK AREA.
 - BEFORE AND WHILE MOVING BACKWARDS, LOOK BEHIND AND DOWN FOR SMALL CHILDREN.
 - NEVER ALLOW CHILDREN TO OPERATE THE MOWER.
 - USE EXTRA CARE WHEN APPROACHING BLIND CORNERS, SHRUBS, TREES, OR OTHER OBJECTS THAT MAY OBSCURE YOUR VISION.
-

Safety with Gasoline-Powered Machines

WARNING!

GASOLINE IS A HIGHLY FLAMMABLE LIQUID. GASOLINE ALSO GIVES OFF FLAMMABLE VAPOR THAT CAN BE EASILY IGNITED AND CAUSE A FIRE OR EXPLOSION. NEVER OVERLOOK THE HAZARDS OF GASOLINE. ALWAYS FOLLOW THESE PRECAUTIONS:

- **NEVER RUN THE ENGINE IN AN ENCLOSED AREA OR WITHOUT PROPER VENTILATION AS THE EXHAUST FROM THE ENGINE CONTAINS CARBON MONOXIDE, WHICH IS AN ODORLESS, TASTELESS, AND DEADLY POISONOUS GAS.**
 - **STORE ALL FUEL AND OIL IN CONTAINERS SPECIFICALLY DESIGNED AND APPROVED FOR THIS PURPOSE AND KEEP AWAY FROM HEAT AND OPEN FLAME, AND OUT OF THE REACH OF CHILDREN.**
 - **FILL THE GASOLINE TANK OUTDOORS WITH THE ENGINE OFF AND ALLOW THE ENGINE TO COOL COMPLETELY. DO NOT HANDLE GASOLINE IF YOU OR ANYONE NEARBY IS SMOKING, OR IF YOU ARE NEAR ANYTHING THAT COULD CAUSE IT TO IGNITE OR EXPLODE. REPLACE THE FUEL TANK AND FUEL CONTAINER CAPS SECURELY.**
 - **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 WITH GAS IN THE TANK OR A FUEL CONTAINER, NEAR AN OPEN FLAME OR SPARK SUCH AS A WATER HEATER.**
 - **NEVER MAKE ADJUSTMENTS OR REPAIRS WITH THE ENGINE RUNNING. DISCONNECT THE SPARK PLUG WIRE AND KEEP THE WIRE AWAY FROM THE SPARK PLUG TO PREVENT ACCIDENTAL STARTING.**
 - **NEVER OPERATE THE ENGINE WITH THE AIR CLEANER OR COVER OVER THE CARBURETOR AIR INTAKE REMOVED, EXCEPT FOR ADJUSTMENT. REMOVAL OF SUCH PARTS COULD CREATE A FIRE HAZARD. DO NOT USE FLAMMABLE SOLUTIONS TO CLEAN AIR FILTER.**
 - **NEVER TAMPER WITH SAFETY DEVICES. CHECK THEIR PROPER OPERATION REGULARLY.**
 - **DO NOT CHANGE THE ENGINE GOVERNOR SETTINGS OR MODIFY THE ENGINE SPEED.**
 - **TO REDUCE FIRE HAZARD, KEEP THE ENGINE AND MUFFLER FREE OF DEBRIS BUILD-UP.**
-

! CAUTION!

THE MOWER MUST BE OPERATED SAFELY TO PREVENT OR MINIMIZE THE RISK OF MINOR OR MODERATE INJURY. UNSAFE OPERATION CAN CREATE A NUMBER OF HAZARDS FOR YOU. ALWAYS TAKE THE FOLLOWING PRECAUTIONS WHEN OPERATING THIS MOWER:

- KEEP IN MIND THAT THE OPERATOR OR USER IS RESPONSIBLE FOR ACCIDENTS OR HAZARDS OCCURRING TO OTHER PEOPLE, THEIR PROPERTY, AND THEMSELVES.
 - USE EAR PROTECTORS OR EAR PLUGS RATED FOR AT LEAST 20 DBA TO PROTECT YOUR HEARING.
 - WEAR LONG PANTS WHILE MOWING.
 - USE CAUTION WHEN MOWING CLOSE TO FENCES, BUILDINGS, TREES, ETC. SO AS NOT TO HIT THE HANDLE BAR. DOING SO, YOU MAY INJURE YOUR HAND OR LOSE CONTROL OF THE MACHINE.
 - SEE MANUFACTURER'S INSTRUCTIONS FOR PROPER OPERATION AND INSTALLATION OF ACCESSORIES. ONLY USE ACCESSORIES APPROVED BY COUNTRY HOME PRODUCTS, INC.
 - KEEP ALL NUTS AND BOLTS TIGHT, ESPECIALLY THE BLADE ATTACHMENT BOLTS, AND KEEP THE EQUIPMENT AND ATTACHMENTS IN GOOD OPERATING CONDITION.
 - THE MOWER BLADE IS SHARP AND CAN CUT. WRAP THE BLADE OR WEAR GLOVES, AND USE EXTRA CAUTION WHEN SERVICING.
 - NO LIST OF WARNINGS AND CAUTIONS CAN BE ALL-INCLUSIVE. IF SITUATIONS OCCUR THAT ARE NOT COVERED BY THIS MANUAL, THE OPERATOR MUST APPLY COMMON SENSE AND OPERATE THIS MOWER IN A SAFE MANNER. CALL **1-800-DR-OWNER (376-9637)** FOR ASSISTANCE.
-

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. This also applies to operation on US Forest Lands. All DR SCOUT 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.

CHAPTER 3

SETTING UP YOUR DR SCOUT 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. **If you have any questions at all, please feel free to contact our Customer Service Representatives at our Toll-Free number: 1-800-DR-OWNER (376-9637).**

DR SCOUT FIELD and BRUSH MOWER Controls and Features

NOTE: The model shown in **Figure 1** may look slightly different from your machine.

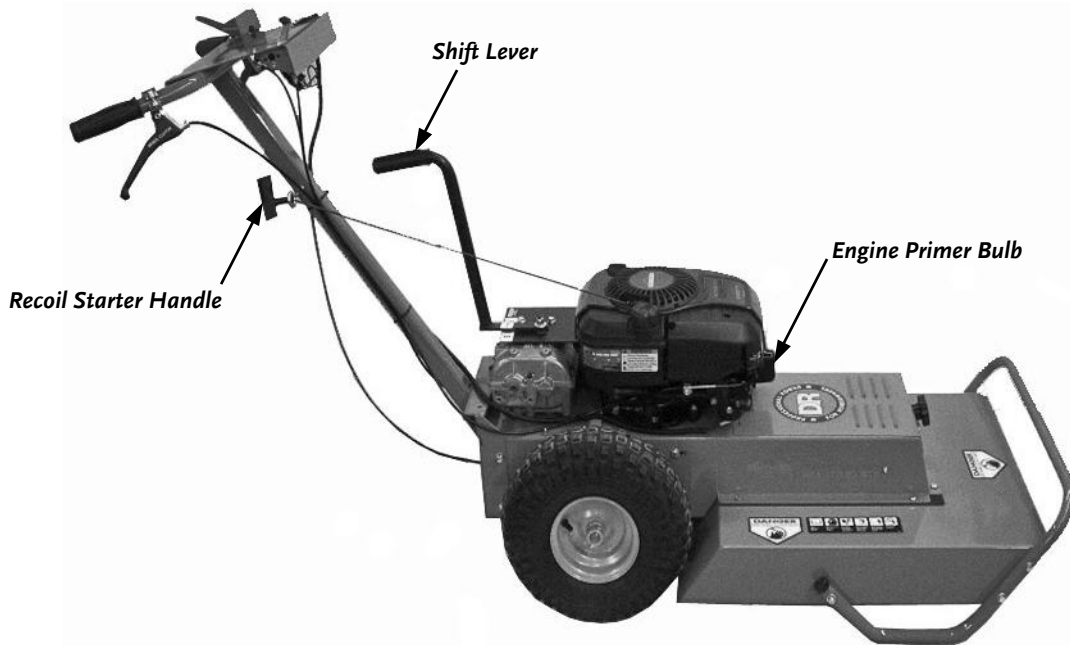
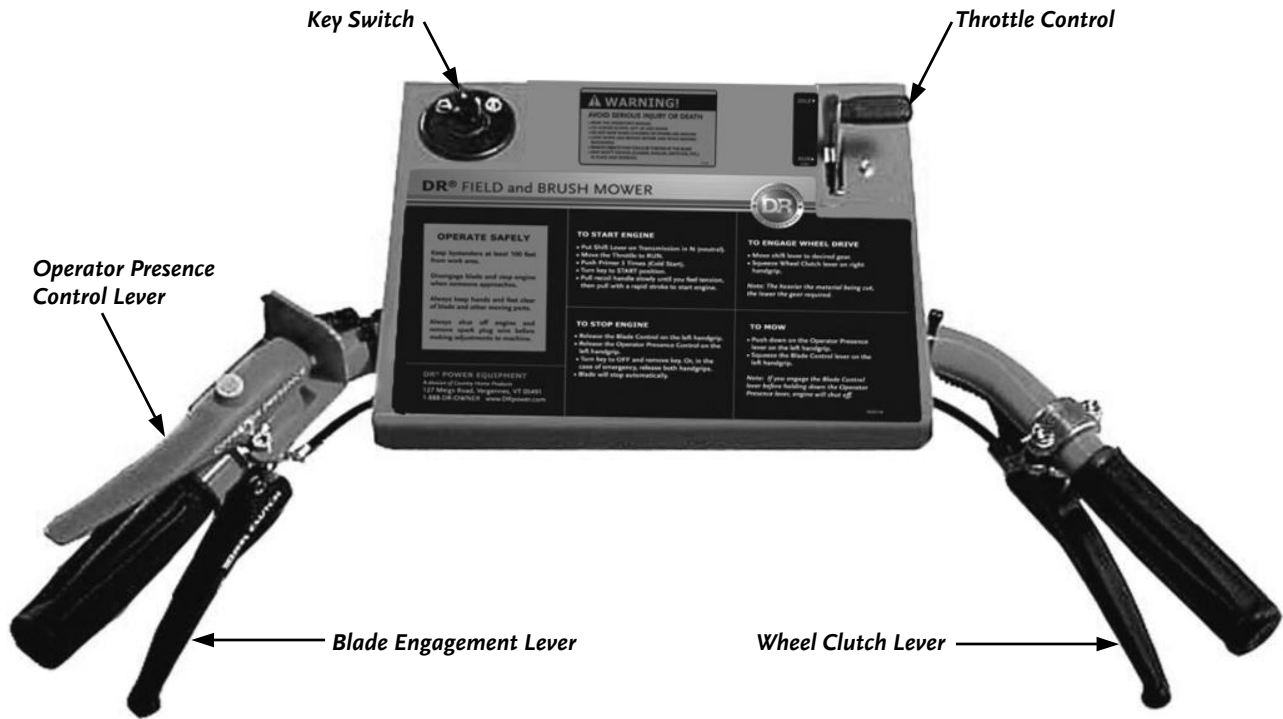


Figure 1

Unpacking the Mower

Tools and Supplies Needed:

- Screwdriver
- Metal Shears
- Knife
- Gloves and Eye Protection

CAUTION!

- WEAR EYE PROTECTION WHEN CUTTING THE BANDING. THE BANDING MAY HAVE A LOT OF TENSION ON IT AND MAY SNAP AND CUT YOU. ALWAYS STAND TO ONE SIDE WHEN CUTTING THE BAND.
 - STABILIZE THE SHIPPING CONTAINER ON CLEAN FLAT TERRAIN BEFORE ATTEMPTING TO UNPACK AND ASSEMBLE THE MACHINE.
-

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 new DR SCOUT FIELD and BRUSH MOWER.

NOTE: Two (2) spare Shear Bolts and Nuts for the Wheels are provided.

5. Remove the Blade Protector from the Blade. (See CAUTION note above)

Adding Oil and Gasoline

! NOTICE!

- **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.**
- **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.**

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.

NOTE: Use only SAE 30 high detergent oil. Other types of oil could cause problems operating your machine. Please refer to your Engine Owner's Manual for detailed oil information.

Approximate Engine Oil Required	
Briggs & Stratton – 8.25 Ft.-Lbs. Torque, Intek	20 oz. (0.60 L)

1. Place the machine on a level surface and initially add 10oz. of SAE 30 high detergent oil (recommended by the Engine Manufacturer) into the Oil Fill (**Figure 2**) and wait one minute for the oil to settle.
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.
3. Fill the gas tank to within 1/4 inch of the top with fresh, unleaded gas. See the Engine Owner's Manual for more information.

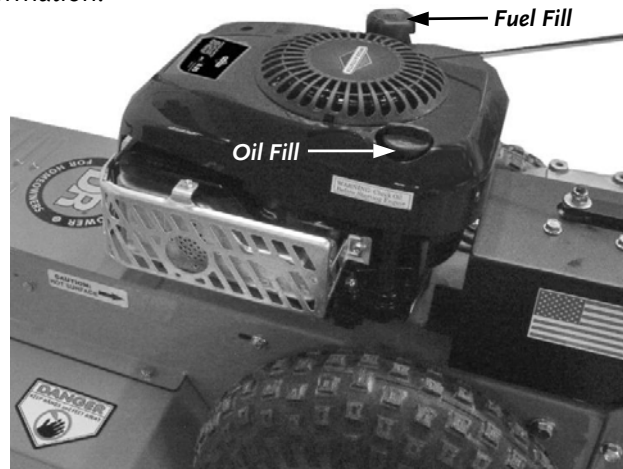


Figure 2

Check the Tire Pressure

There should be 10 psi in each tire.

OPERATING YOUR DR SCOUT FIELD and BRUSH MOWER

This chapter covers the procedures for starting and stopping your new DR SCOUT FIELD and BRUSH MOWER and discusses basic operation features. You may find it helpful to review the DR SCOUT FIELD and BRUSH MOWER Controls and Features picture (**Figure 1**) on page 12 before reading this chapter.

The Pre-Start Safety Check

Your DR SCOUT FIELD and BRUSH MOWER is fitted with an Operator Presence System to prevent the blade from cutting without an operator in the proper position at the controls. In addition, normal wear and tear can bring about the need for adjustment to some running parts to insure that they function properly in terms of safe operation.

For your protection, it is imperative that you perform these simple test procedures before each use of the machine to verify that the safety equipment is in good order and that no part adjustments are needed for safe operation.

Test your Operator Presence Control System:

1. Stand in the operating position behind the handlebars, start your machine, and engage the Blade.
2. Remain behind the handlebars and release both hands from the controls.
3. THE BLADE SHOULD STOP TURNING IMMEDIATELY. If the Blade does not stop, your Operator Presence Control System may be damaged or disabled.



TURN OFF YOUR MACHINE BY USING THE IGNITION KEY AND STOP USING YOUR MACHINE IMMEDIATELY!

Inspect the system for the following:

- Intentional disabling of the system through part modification or temporary measures used to override the system.
- Loose electrical connections.
- Broken parts.

After inspection, repeat this test. If your system still does not operate properly, REMOVE THE KEY FROM THE IGNITION SWITCH TO PREVENT OTHERS FROM OPERATING THE EQUIPMENT.

Call our Technical Support Representatives at **1-800-DR-OWNER (376-9637)** for assistance.

Checking and adjusting clutch engagement:

1. Start your machine in the normal manner.
2. With the Operator Presence Lever depressed, shift into low gear.
3. Increase the engine rpm but do not squeeze the Clutch Lever. The machine should not move when you are not squeezing the Clutch Lever.

CAUTION!

IF YOUR MACHINE “CREEPS” DURING THIS TEST, YOUR CLUTCH NEEDS ADJUSTMENT. CONSULT CHAPTER 5, PAGE 27 OF YOUR SAFETY AND OPERATING MANUAL, AND MAKE ALL NECESSARY CORRECTIONS BEFORE USING.

Before Starting the Engine

1. Check the oil level every time you use the machine. See **Figure 2** on page 14.
2. Check the gas level (**Figure 2**).

Starting

1. Move the Shift Lever to N (Neutral) (**Figure 3**).
 2. Move the Throttle (**Figure 1**, on page 12) to the RUN position.
- NOTE:** If the engine is cold, push the Primer Bulb (**Figure 4**) in and completely release it, lifting your finger and letting it pop back to its original position. Repeat three to four times. In cold weather, you may need to press additional times, being sure that the bulb inflates between pumps.
3. Turn the Key (**Figure 1**) to START.
 4. 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 SCOUT FIELD and BRUSH MOWER.
 5. As the engine warms up, slowly adjust the Throttle to the desired engine speed. Wait until the engine runs smoothly before each Throttle adjustment.

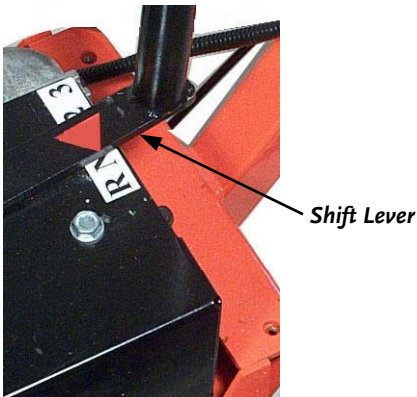


Figure 3

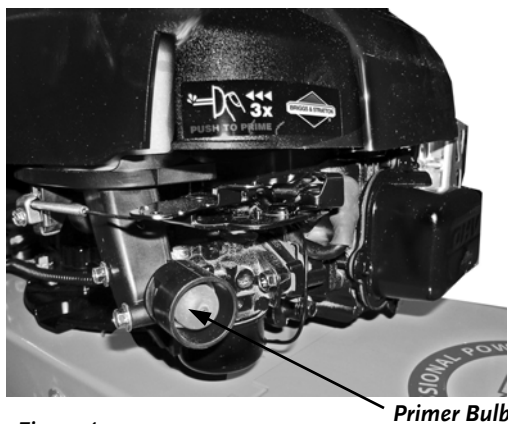


Figure 4

Engaging the Wheel Drive

The DR SCOUT 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 1**, on page 12) when shifting gears.

1. Move the Shift Lever to the desired gear (**Figure 4**).
2. Gently squeeze the Wheel Clutch Lever to engage a gear.
3. Release the Wheel Clutch Lever if you need to slow down or stop.

Engaging the Blade

1. Hold down the Operator Presence Lever (**Figure 1**, on page 12).
2. Engage the Blade by squeezing the Blade Clutch Lever (**Figure 1**).

NOTE: If you squeeze the Blade Clutch Lever before holding down the Operator Presence Lever, the engine will shut off.

Tip: Squeeze the Blade Clutch Lever against the Handlebar Grip and then relax your grip a little; this will require less force to hold the Lever in position using this method.

CAUTION!

ALWAYS DISENGAGE THE BLADE OF THE DR SCOUT FIELD and BRUSH MOWER BEFORE SHIFTING INTO REVERSE.

Stopping the Blade

Release the Blade Clutch Lever (**Figure 1**, on page 12).

NOTE: Releasing the Operator Presence Lever to disengage the Blade 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 Shift Lever to the N (Neutral) position (*Figure 5*).
3. Move the Throttle Control to the IDLE position (*Figure 5*).
4. Turn the Key to the OFF position (*Figure 5*) 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 EASILY THROW STONES, STICKS, AND OTHER DEBRIS UP TO 100 FEET 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. 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.
- NEVER TOUCH THE EXHAUST AREAS WHEN REACHING FOR THE SPARK PLUG—THEY ARE VERY HOT.

Slopes

! WARNING!

- WHEN OPERATING THE DR SCOUT FIELD and BRUSH MOWER OVER UNEVEN TERRAIN OR SLOPES, USE EXTREME CAUTION NOT TO TIP OVER THE MACHINE.
- NEVER USE THE DR SCOUT FIELD and BRUSH MOWER ON SLOPES GREATER THAN 20 DEGREES (FIGURE 6). DOING SO COULD RESULT IN SERIOUS INJURY OR DAMAGE TO YOUR MACHINE.

1. If you have to mow on sloping terrain, mow across the slope, not up and down, for better control.
2. To avoid “free-wheeling”, shift into a lower gear before going down a slope. NEVER shift while on a slope.



Figure 6

If the machine gets hung up

1. Disengage the Blade. NEVER try to free the machine from stumps or debris with the Blade engaged.
2. Try putting the machine in reverse and backing away from the obstacle.
3. Try pushing down on the handlebars to lift the mowing deck over the obstacle.

! WARNING!

- IF YOU NEED TO LEAVE THE OPERATING POSITION TO CLEAR DEBRIS FROM THE DECK, FIRST PUT THE MACHINE IN "N" (NEUTRAL), TURN THE ENGINE OFF AND DISCONNECT THE SPARK PLUG WIRE.
- NEVER TOUCH THE EXHAUST AREAS WHEN REACHING FOR THE SPARK PLUG—THEY ARE VERY HOT.

Cutting Brush and 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 is 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. If you find it difficult to shift into reverse, lightly "feather" the Wheel Clutch Lever as you put the Shift Lever into reverse, then quickly release the Wheel Clutch Lever.
4. Gently squeeze the Wheel Clutch Lever to start moving in reverse.

Cutting in Wet and Heavy Growth

1. Be very careful of your footing when mowing in wet conditions. Avoid steep slopes and other slippery areas.
2. Use a lower, slower speed when mowing in wet conditions.

CHAPTER 5

MAINTAINING THE DR SCOUT FIELD and BRUSH MOWER

This chapter covers regular maintenance procedures that will ensure the best performance and long life of your machine. For engine maintenance, please refer to the Engine Owner's Manual that came with your mower. Service intervals listed in the checklist below supercede those listed in the Engine 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 (WITH THE DISCHARGE CHUTE FACING UP), YOU MUST FIRST DISCONNECT THE SPARK PLUG WIRE, DRAIN THE OIL AND GAS, AND REMOVE THE AIR FILTERS.

Regular Maintenance Check List

NOTE: Consider the service intervals shown as 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	▲		
Lubricate Wheel and Blade Clutch Levers*		▲	
Lubricate Chain* and Clean around Idlers		▲	
Check Tire Pressure		▲	
Change Engine Oil and Filter**	1 st time 5 hours	▲	
Clean Engine Exterior and Cooling Fins		▲	
Check all Belt Tensions and Condition		▲	
Check Cable connections		▲	
Replace Air Filter and Precleaner**		▲	
Replace Spark Plug			▲

* SAE 30 Oil; NEVER use penetrating oil.

** The Engine on your DR may not have a Precleaner or Oil Filter.

Lubrication

Your DR SCOUT 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 periodically lubricate the Wheel Clutch Cable, Blade Clutch Cable, Drive Chain, and provide engine lubrication.

Tools and Supplies Needed:

- 1/2" Wrench or Socket (chain cover)
- 9/16" Wrench or Socket (shift lever)
- SAE 30 Oil

WARNING!

BEFORE PERFORMING ANY MAINTENANCE PROCEDURE, STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE.



Figure 8

1. Lubricate the Blade Clutch Cable and Wheel Clutch Cable with SAE 30 Oil. Apply the lubricant into the cable housing while working the cable back and forth a few times. You should do this at both ends of the cables. Perform this lubrication more often in dry and dusty environments.
2. To remove the Chain Cover, first remove the Shift Lever Attaching Nut (**Figure 8**) and then remove the Shift Lever.
3. Remove the two (2) Chain Cover screws and then remove the Chain Cover (**Figure 9**).
4. Lubricate the Chain (**Figure 10**) and then replace the Chain Cover and Shift Lever.



Figure 9

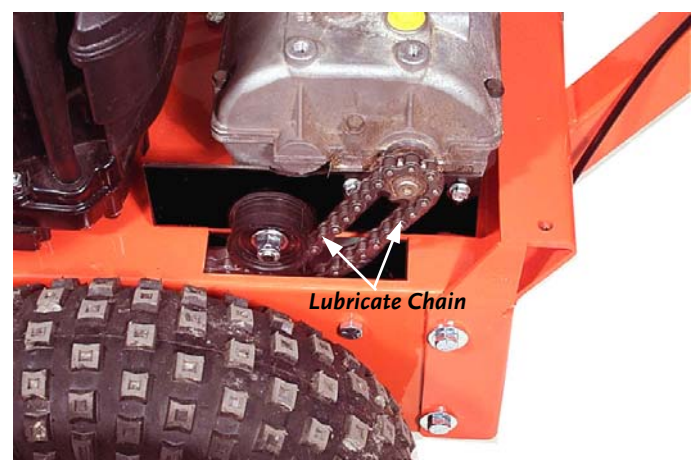


Figure 10

Removing the Engine Oil

WARNING!

BEFORE PERFORMING ANY MAINTENANCE PROCEDURE, STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE.

- **Manually:**

1. Drain the gas from the Fuel Tank.
2. Remove the Oil Filler Cap and position a suitable oil receptacle beside the Oil Fill Tube.
3. 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 (*Figure 11*).
4. Replace the oil by following the instructions on page 14.



Figure 11

- **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 14.

NOTE: *If you are not reusing the oil, be sure to use environmentally safe disposal procedures in the disposing of the used oil.*

Removing and Replacing the Belts

! WARNING!

BEFORE PERFORMING ANY MAINTENANCE PROCEDURE, STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE.

! NOTICE!

USE ONLY DR BELTS ON YOUR MACHINE. THEY HAVE BEEN THOROUGHLY TESTED AND PROVEN FOR MANY HOURS OF USE.

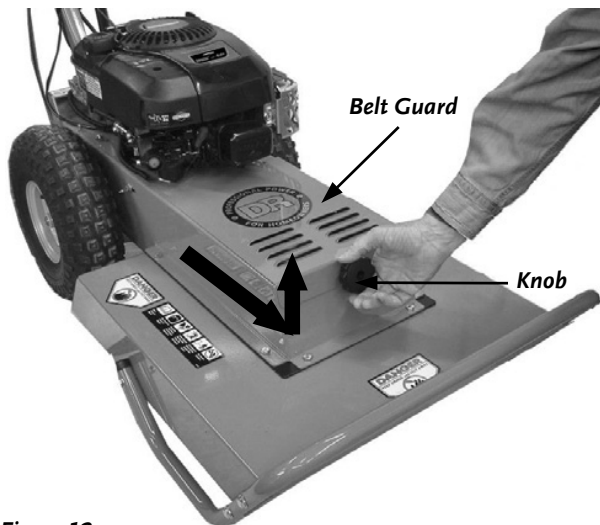


Figure 12

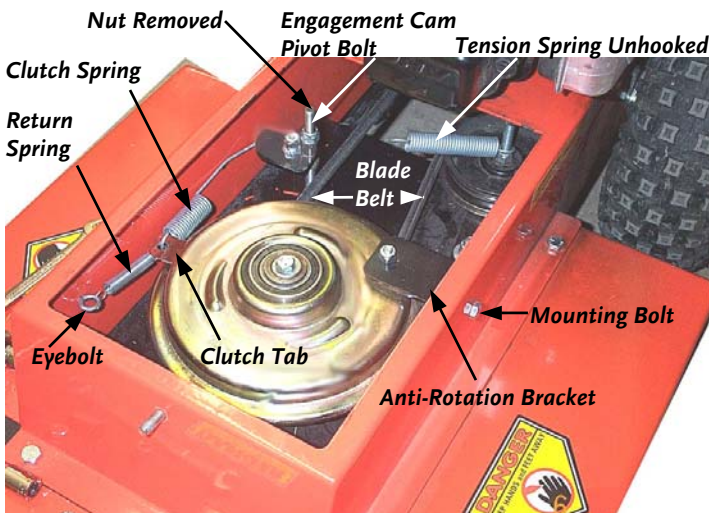


Figure 13

To Replace the Blade Belt

Tools and Supplies Needed:

- 9/16" Wrench or Socket (Spring Nut)
 - 1/2" Wrench or Socket (Bracket Mounting Bolt)
 - Gloves
1. Remove the Belt Guard by unscrewing the black Knob and pull the Guard forward, lifting to remove it (**Figure 12**).
 2. Remove the top nut from the Blade Engagement Cam Pivot Bolt (**Figure 13**). Remove the Belt 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 13**).
 3. Remove the Anti-Rotation Bracket by removing the Mounting Bolt from the side of the machine (**Figure 13**). Place one hand beneath the Bracket inside the machine to catch any inside washers. Lift the Bracket from the Clutch.
 4. Remove the Clutch Return Spring by unhooking it from the Eyebolt (**Figure 13**) and the Clutch Spring Hook under the Clutch Tab.
 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 13**).
 6. Remove the Belt from the Engine Pulley below the machine and then remove it from around the Clutch (**Figure 13**).
 7. To mount the Belt, follow the above procedure in the reverse order. See page 30 for details on reinstalling the Springs.

To Replace the Drive Belt

! WARNING!

BEFORE PERFORMING ANY MAINTENANCE PROCEDURE, STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE.

! NOTICE!

USE ONLY DR BELTS ON YOUR MACHINE. THEY HAVE BEEN THOROUGHLY TESTED AND PROVEN FOR MANY HOURS OF USE.

Tools Needed:

- 7/16" Wrench or Socket
- Gloves

1. Drain the gas and oil.
2. Loosen the two outside Belt Retainer Bolts on the right and left side of the machine near the wheels and slide them forward (**Figure 14**).
3. Release the Clutch Control Cable from the handle by pulling back and down (**Figure 15**).
4. Remove the Blade Belt following the instructions as outlined on the previous page.
5. With the machine on its side, remove the two (2) Bolts, the Clutch Cable Bracket, and the third Belt Guide Bolt to the right of the Pulley (**Figure 16**).
6. Remove the Belt from the Pulleys and re-install the new Belt by reversing the above procedure.
7. Check the Wheel Clutch Adjustment; see page 27.

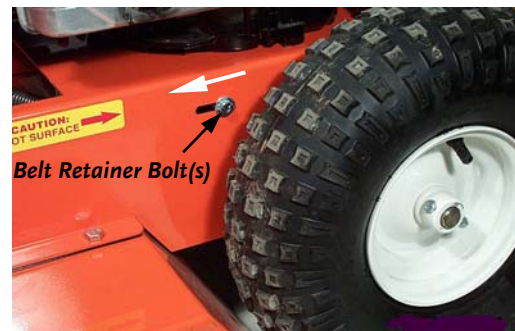


Figure 14

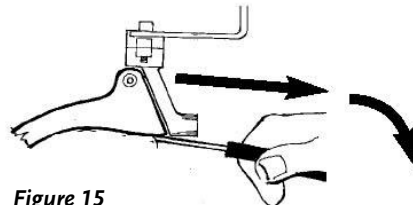


Figure 15

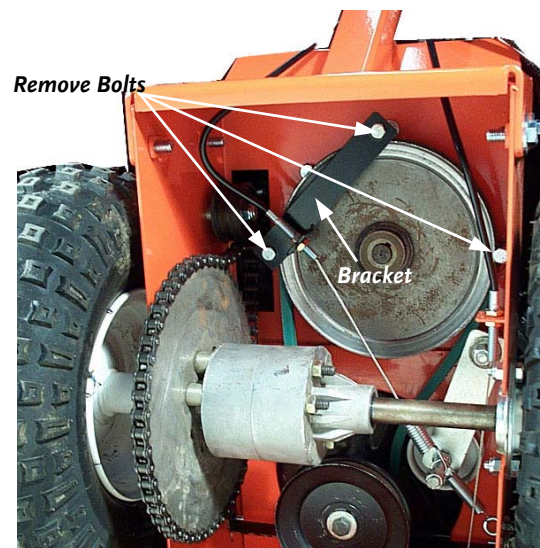


Figure 16

! NOTICE!

BE CERTAIN TO FILL THE ENGINE WITH OIL BEFORE STARTING THE ENGINE; SEE PAGE 14.

Removing and Replacing the Blade

! WARNING!

BEFORE PERFORMING ANY MAINTENANCE PROCEDURE, STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE.

Tools and Supplies Needed:

- 15/16" Wrench or Socket
- Gloves
- Block of wood to brace the blade

1. Brace the Blade with a block of wood between the Blade and the mower frame (*Figure 17*).
2. Remove the Blade Bolt (right-hand, regular thread) and washer.

! WARNING!

USE CAUTION WHEN PUSHING OR PULLING THE WRENCH NEXT TO THE BLADE. WEAR GLOVES; IF THE WRENCH SLIPS OFF THE BOLT, YOU MAY BE SERIOUSLY INJURED.

3. Remove the blade.
4. Mount the new Blade, washer, and Bolt.

NOTE: Be sure to seat the Blade completely over the small ridge in the Spindle Hub before tightening the Bolt.



Figure 17

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 Adjuster on the Clutch Bracket on the underside of the machine (**Figure 18**).
 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.

! CAUTION!

IF YOU OVER TIGHTEN THE CLUTCH, THE MACHINE MAY LURCH FORWARD WHEN SHIFTING INTO GEAR. USE CAUTION WHEN SHIFTING INTO GEAR. TEST ADJUSTMENT USING THE PROCEDURE ON PAGE 16.



Figure 18

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
- Needle Nose Pliers

1. Place the Gearshift Lever in (N) NEUTRAL and remove the Chain Cover by removing the Shift Lever attaching Nut, Shift Lever, and then the two (2) Chain Cover Screws (**Figure 19**).
2. Locate (by rotating the Drive Sprocket) and remove the Master Chain Link (**Figure 20**). First, remove the Lock Clip by spreading the Clip with the Screwdriver and at the same time, slide the Lock Clip back off the Master Link pins with the Needle Nose Pliers. Next, remove the Side Plate, and then remove the Master Chain Link.
3. Slowly feed the Chain out.
4. Install and route the new Chain (**Figure 21**).
5. Add the Master Chain Link (**Figure 20**) in the reverse order of step 2.
6. Replace the Chain Cover and tighten the Screws.
7. Replace the Shift Lever and tighten the Nut.



Figure 19

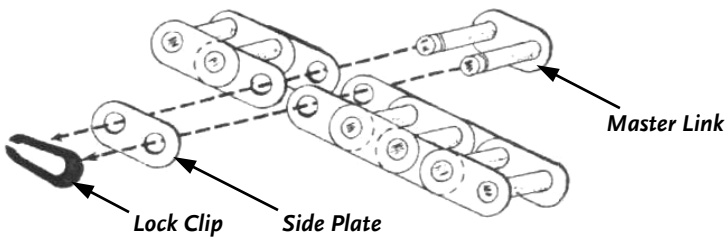


Figure 20

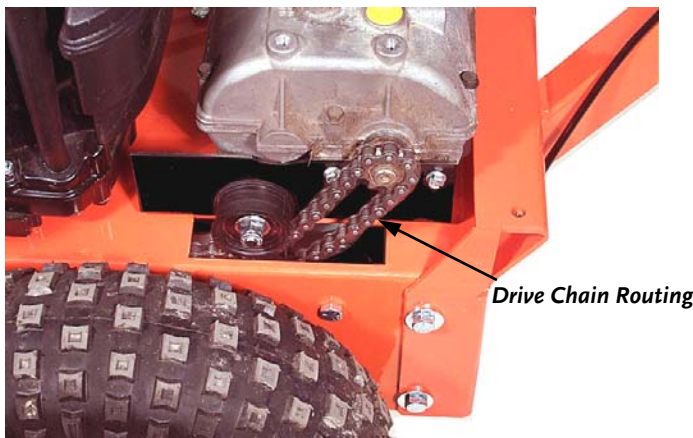


Figure 21

Adjusting the Blade Engagement Cable

! WARNING!

BEFORE PERFORMING ANY MAINTENANCE PROCEDURE, STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE.

NOTE: *If the Blade will not 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. Replace the Clutch if the problem continues.*

! CAUTION!

BE SURE THE BLADE ENGAGEMENT LEVER DOES NOT STAY IN THE ENGAGED POSITION WITHOUT THE OPERATOR HOLDING THE LEVER.

Tool Needed:

- (2) 1/2" Open End Wrench
1. Tip the machine forward and stabilize it.
 2. Under the machine, on the right hand side, there is a Bracket for adjusting the Blade Engagement Cable (**Figure 22**). To tighten the cable, loosen the Front Nut on the threaded side of the Bracket by 1/8" to 1/4" using a 1/2" Open End Wrench, and then tighten the Nut on the back against the Bracket using another 1/2" Open End Wrench. Check the tension on the Blade Lever and repeat the adjustment as needed. To loosen the cable, just back off the Nut from the back of the Bracket.
 3. Re-tighten the Front Nut when finished all adjustments.

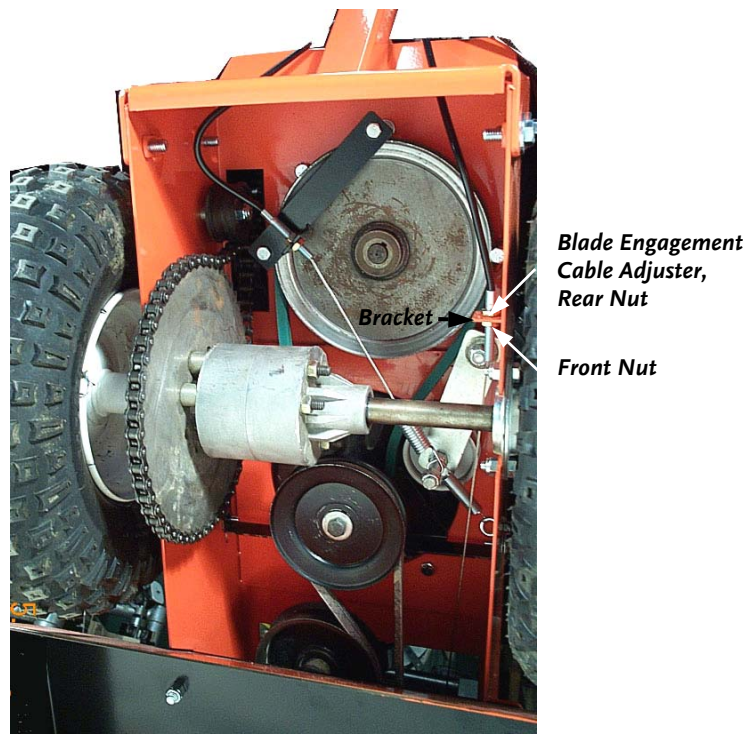


Figure 22

CALL TOLL-FREE 1-800-DR-OWNER

Replacing the Blade Clutch Springs

! WARNING!

BEFORE PERFORMING ANY MAINTENANCE PROCEDURE, STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE.

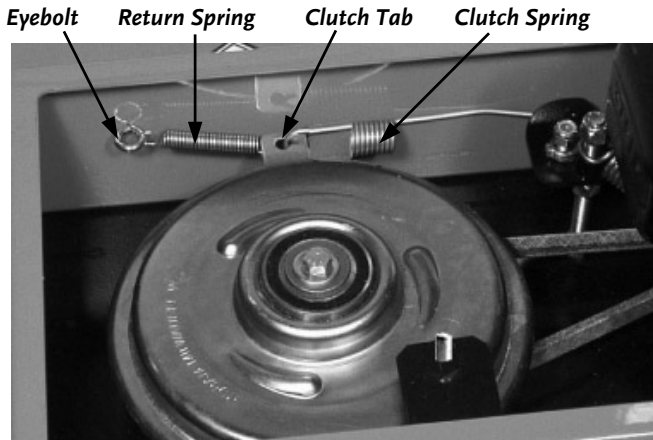


Figure 23

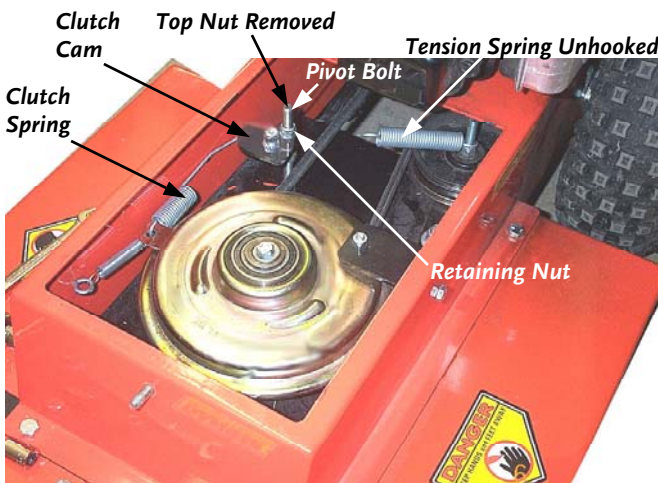


Figure 24

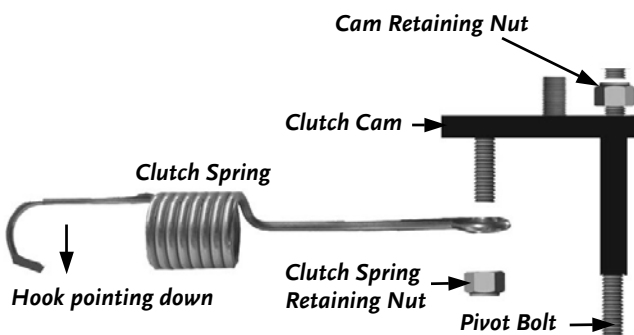


Figure 25

Tools Needed:

- 1/2" Wrench
- 9/16" Wrench
- Gloves

Remove the Belt Guard by unscrewing the Knob, pull the Guard forward, and lift to remove it (**Figure 12** on page 24).

Return Spring:

1. Remove one end of the Return Spring from the Eyebolt on the machine frame and from the Clutch Spring Hook at the Clutch Tab (**Figure 23**).
2. Install the new Return Spring by reversing the above procedure.

Clutch Spring:

1. Remove the Return Spring as indicated above.
 2. 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 23**).
 3. Remove the top Nut from the Clutch Cam Pivot Bolt (**Figure 24**) using a 9/16" Wrench.
 4. 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**).
 5. Using a 9/16" Wrench, raise the Cam Retaining Nut, lift the Clutch Cam up on the Pivot Bolt, and remove the Clutch Spring Retaining Nut using a 1/2" Wrench (**Figure 25**).
 6. Remove the old Clutch Spring from beneath the Clutch Cam and install the new Clutch Spring with the Hook that attaches to the Clutch Tab facing down (**Figure 25**). Tighten the Clutch Spring Retaining Nut.
 7. Slide the Cam back down Pivot Bolt and tighten the Retaining Nut.
- NOTE:** Do not over tighten. The Cam should be free to pivot on the Pivot Bolt.
8. Replace Clutch Spring on the Clutch Tab and the Tension Spring on the Pivot Bolt in the reverse order of steps 2 thru 4.
 9. Replace the Return Spring as indicated above.
 10. Replace the Belt Guard (**Figure 12** on page 24).

Installing a New Clutch Kit # 214001

Your Clutch Replacement Kit contains the parts for proper replacement of your DR® Scout Clutch Assembly. Before starting work, please take a moment to familiarize yourself with the location of the work, the tool requirements and inspect the contents of your kit to be certain all parts are included.

WARNING!

STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE BEFORE PERFORMING THIS INSTALLATION. THIS PROCEDURE REQUIRES TIPPING YOUR MACHINE. REMOVE THE AIR FILTER, PRECLEANER, OIL AND GAS BEFORE TIPPING. ALWAYS STABILIZE THE MACHINE WHEN IT IS IN A TIPPED POSITION.

Kit Contents:

- (1) Clutch, P/N 175401
- (3) Washer, P/N 112381

Tools and Supplies Needed:

- 1/2" Wrench
- 9/16" Wrench
- Gloves
- Marking Pen
- Block of wood to brace the Blade

1. Remove the Blade Belt per steps 1 thru 6 on page 24.
2. Tip the machine toward the rear and stabilize it.
3. Wedge a block of wood between the Mower Frame and the Blade (**Figure 26**) and then return the machine to level ground.
4. Using a 9/16" Wrench, remove the Clutch Bolt, Lock Washer, and Flat Washer (**Figure 27**).
5. Grasp the Clutch with both hands about 180° apart and lift the Clutch from the shaft.

Tip: Rock the Clutch back and forth while lifting and then change hand positions around the Clutch.

NOTE: Before installing the new Clutch on the Blade shaft, it is necessary to locate the exact point where the Clutch Tab engages the Clutch mechanism.

6. Hold the new Clutch with the Clutch Tab facing left (**Figure 28**).
7. Move the Tab forward to where you first feel resistance and mark the Clutch Housing above the front edge of the Tab at that point (**Figure 28**).



Figure 26

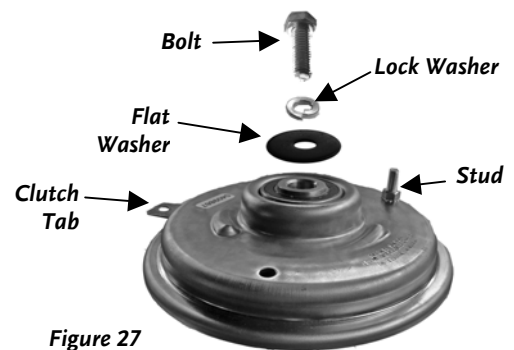


Figure 27

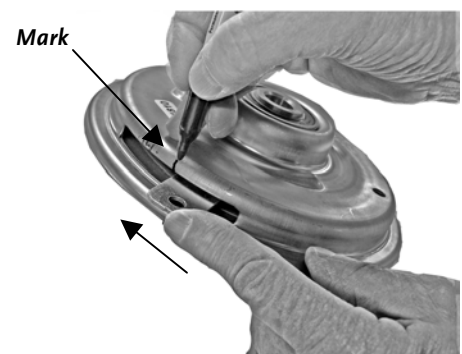


Figure 28

8. Lightly lubricate the Clutch Shaft then slip the new Clutch on the Shaft with the Clutch Tab facing the Clutch Springs area.
9. Position the Blade Belt around the Clutch Pulley and Engine Pulley.
10. Seat the new Clutch on the Shaft and replace the Bolt, Lock Washer, and Flat Washer (**Figure 27** on page 31).
11. Tip the machine as in step 2 and place the wood block on the *opposite* side shown in **Figure 26** on page 31.
12. Tighten the Clutch Bolt securely and remove the wooden block.
13. Place the Lock Washer on the Anti-Rotation Mounting Bolt and set it near the Bracket Mounting Hole.
14. Place the Bracket on the Clutch Stud on top of the Clutch and move the Bracket into position near the Mounting Bolt Hole in the frame.
15. Hold two (2) of the Flat Washers supplied in your kit between the Bracket and the Mounting Hole (save the third washer for possible adjustments later).
16. Insert the Mounting Bolt with Lock Washer through the Mounting Hole, the two (2) Flat Washers and thread it into the Anti-Rotation Bracket. Tighten the assembly securely.
17. Rotate the Clutch Tab toward the rear of the machine (clockwise) and hook the Clutch Spring into the Clutch Tab hole.
18. Re-hook the Return Spring to the Clutch Spring hook under the Clutch Tab and to the Eyebolt on the frame.
19. Re-connect the Tension Spring to the Pivot Bolt, replace the Pivot Bolt Nut, and tighten.

NOTE: *With no tension on the Clutch Spring, the hook should rest in the center of the hole in the Clutch Tab (**Figure 29**) when the Tab edge is at the mark previously made on the Clutch housing.*

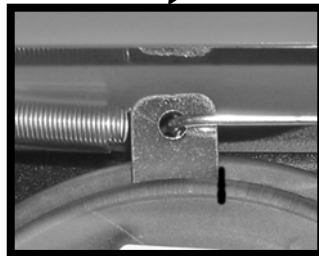


Figure 29

20. Adjust the Blade Engagement Cable, as required, (reference **Figure 22** on page 29) so that the Clutch Spring Hook is in the center of the Clutch Tab Hole as shown in **Figure 29** on the previous page.

NOTE: If you are unable to achieve a correct adjustment of the Clutch Spring Hook in the Clutch Tab, it will be necessary to add the third Flat Washer (**Figure 30**) to the Anti-Rotation Bracket Assembly and repeat steps 16 through 20 using three (3) Flat Washers.

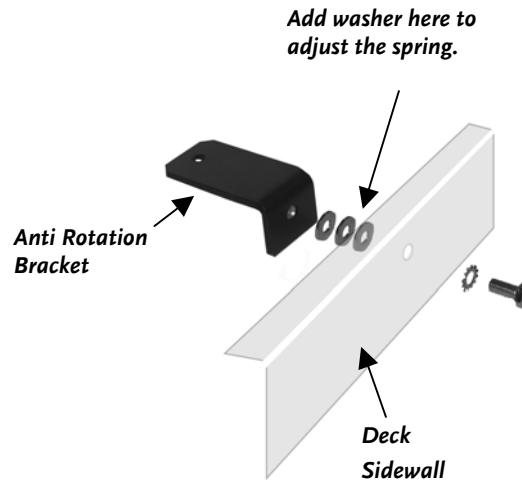


Figure 30

NOTE: It is **VERY IMPORTANT** that you perform the following test.

21. With the Blade Engagement Lever in the down position, place a 1/2" Wrench on the Clutch Bolt and attempt to turn the Bolt (Blade Shaft) clockwise (**Figure 31**).

NOTE: There should be significant resistance and the Shaft should not turn without great effort. This insures that the Blade will stop immediately when not engaged.

22. If the adjustment is correct and working, replace the Belt Guard. The installation is now complete.



Figure 31

! NOTICE!

YOU SHOULD PERFORM THIS CLUTCH ADJUSTMENT ONCE DURING THE INSTALLATION OF NEW CLUTCH. IF ADJUSTMENT IS REQUIRED IN THE FUTURE, THIS INDICATES A WORN CLUTCH, REPLACE IT.

Removing the Wheels

! WARNING!

BEFORE PERFORMING ANY MAINTENANCE PROCEDURE, STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE.

Tool Needed:

- (2) 7/16" Wrench or Socket
1. Block the machine so the Wheel you are removing is off the ground.
 2. While holding the Shear Bolt Head (**Figure 32**) with one Wrench, remove the Shear Bolt Nut with the other Wrench.
 3. Remove the Shear Bolt and slide the Wheel off the axle (**Figure 32**).
 4. Replace the Wheel in the reverse order as above.

NOTE: Do not over tighten the Shear Bolt Nut when reinstalling the Wheel.



Figure 32

End of Season and Storage



BEFORE PERFORMING ANY MAINTENANCE PROCEDURE, STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE.

NOTE: Please refer to the Engine Owner's Manual for engine-specific procedures.

- Change the oil (and oil filter, if applicable).
- 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 Filter(s).
- Clean dirt and debris from the Cylinder Head Cooling Fins, Blower Housing, Debris Screen, and Muffler area of the Engine.
- If your Engine has a Fuel Filter, replace it.
- If your DR SCOUT 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 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.
- Perform the lubrication as outlined on page 22.

TROUBLESHOOTING

Most problems are easy to fix. Consult the Troubleshooting Table below 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.

<i>SYMPTOM</i>	<i>POSSIBLE CAUSE</i>
<p><i>Recoil will not pull out or is difficult to pull.</i></p>	<ul style="list-style-type: none"> ⇒ Check that the Blade Control Lever is properly adjusted and in the released position. ⇒ Check the Engine oil level, the Engine may be seized. ⇒ 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 reinstall it. ⇒ The Recoil may be broken or jammed. Call 1-800-DR-OWNER (376-9637) for assistance.
<p><i>The Engine will not start.</i></p> <p><i>(Please refer to the Engine Owner's Manual for Engine-specific procedures.)</i></p>	<ul style="list-style-type: none"> ⇒ Make sure the Spark Plug Wire is attached. ⇒ Make sure the Key is in the START position. ⇒ If the Engine is cold, push the Primer Bulb 3 to 4 times. See page 16. ⇒ The gas must be fresh and clean. If the gas is old, change it. Use a fuel stabilizer if you keep gas longer than one month. ⇒ Check the Throttle adjustment and travel. ⇒ The Blade Engagement Control Lever must be in the down position. ⇒ Make sure that the Spark Plug is 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. ⇒ Make sure that the wiring is all connected and the connections are tight. ⇒ If your Engine still will not start, call 1-800-DR-OWNER (376-9637) for assistance.

! WARNING!

BEFORE PERFORMING ANY MAINTENANCE PROCEDURE, STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE.

SYMPTOM	POSSIBLE CAUSE
<p><i>The Engine lacks power or is not running smoothly.</i></p> <p><i>(Please refer to the Engine Owner's Manual for Engine-specific procedures.)</i></p>	<ul style="list-style-type: none"> ⇒ Check the Throttle Lever travel and adjustment. Make sure the Throttle Lever is in the Run position. ⇒ Check that the Air Filter is clean. If it is dirty, change it following the procedure in the Engine Owner's Manual. ⇒ Make sure that the Spark Plug is clean. If it has fouled 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. ⇒ The gas must be fresh and clean. If it is old, change it. Use a fuel stabilizer if you keep gas longer than four weeks or so. ⇒ Check to make sure that your Engine has the right amount of clean oil. If it is dirty, change it following the procedure on page 23. ⇒ If your Engine still lacks power, call 1-800-DR-OWNER (376-9637) for assistance.
<p><i>Engine smokes.</i></p>	<ul style="list-style-type: none"> ⇒ Check the oil level and adjust as needed. ⇒ You may be operating the machine on too great an incline. See Slopes on page 19. ⇒ Check the Air Filter(s) and clean or replace if needed. ⇒ You may be using the wrong oil—too light for the temperature. Refer to your Engine Owner's Manual for detailed information. ⇒ Clean the Cooling Fins if they are dirty. ⇒ If the Engine still smokes, call 1-800-DR-OWNER (376-9637) for assistance.
<p><i>Machine is hard to get into reverse.</i></p>	<ul style="list-style-type: none"> ⇒ If you find it difficult to shift into reverse, lightly pull the Clutch Lever as you pull the Shift Lever into Reverse then quickly release the Clutch Lever; see page 20. ⇒ If the difficulty persists, call 1-800-DR-OWNER (376-9637) for assistance.
<p><i>The Belt frays or rolls over the Pulley.</i></p>	<ul style="list-style-type: none"> ⇒ A Pulley groove may be nicked. Check the Belt for wear and hard spots. File off any nicks on the Pulley. ⇒ The Belt may be stretched; replace it.

! WARNING!

BEFORE PERFORMING ANY MAINTENANCE PROCEDURE, STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE.

SYMPTOM	POSSIBLE CAUSE
<i>Blade vibrates when engaged.</i>	<p>⇒ The Blade may not be seated properly on the Hub. Loosen the Blade Bolt, reseal the Blade, and tighten the Bolt. Be sure to turn OFF the Engine and remove the Spark Plug Wire before performing this operation.</p> <p>⇒ Replace the Blade if it is chipped, bent, or broken.</p> <p>⇒ The Spindle Bearings may be bad or the Spindle Shaft is bent. Call 1-800-DR-OWNER (376-9637) 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 Bolt, reseal the Blade, and tighten the Bolt. Be sure to turn OFF the Engine and remove the Spark Plug Wire before performing this operation.</p> <p>⇒ Sharpen the Blade; it may be dull or nicked.</p>
<i>Wheels pulling left or right.</i>	<p>⇒ Check the Tire pressure. There should be 10 psi in each Tire.</p>
<i>The Wheels will not drive.</i>	<p>⇒ Check to see that the Shear-Bolt is in place and not broken. If required, replace the Shear-Bolt and Nut with one of the spares supplied.</p> <p>⇒ The Wheel Clutch is out of adjustment. See page 27.</p> <p>⇒ The Drive Belt is broken. Replace the Drive Belt. See page 25.</p> <p>⇒ The Drive Chain is broken. Replace the Drive Chain. See page 28.</p>

PARTS LISTS, SCHEMATIC DIAGRAMS AND WARRANTY
Parts List - Handlebar Assembly

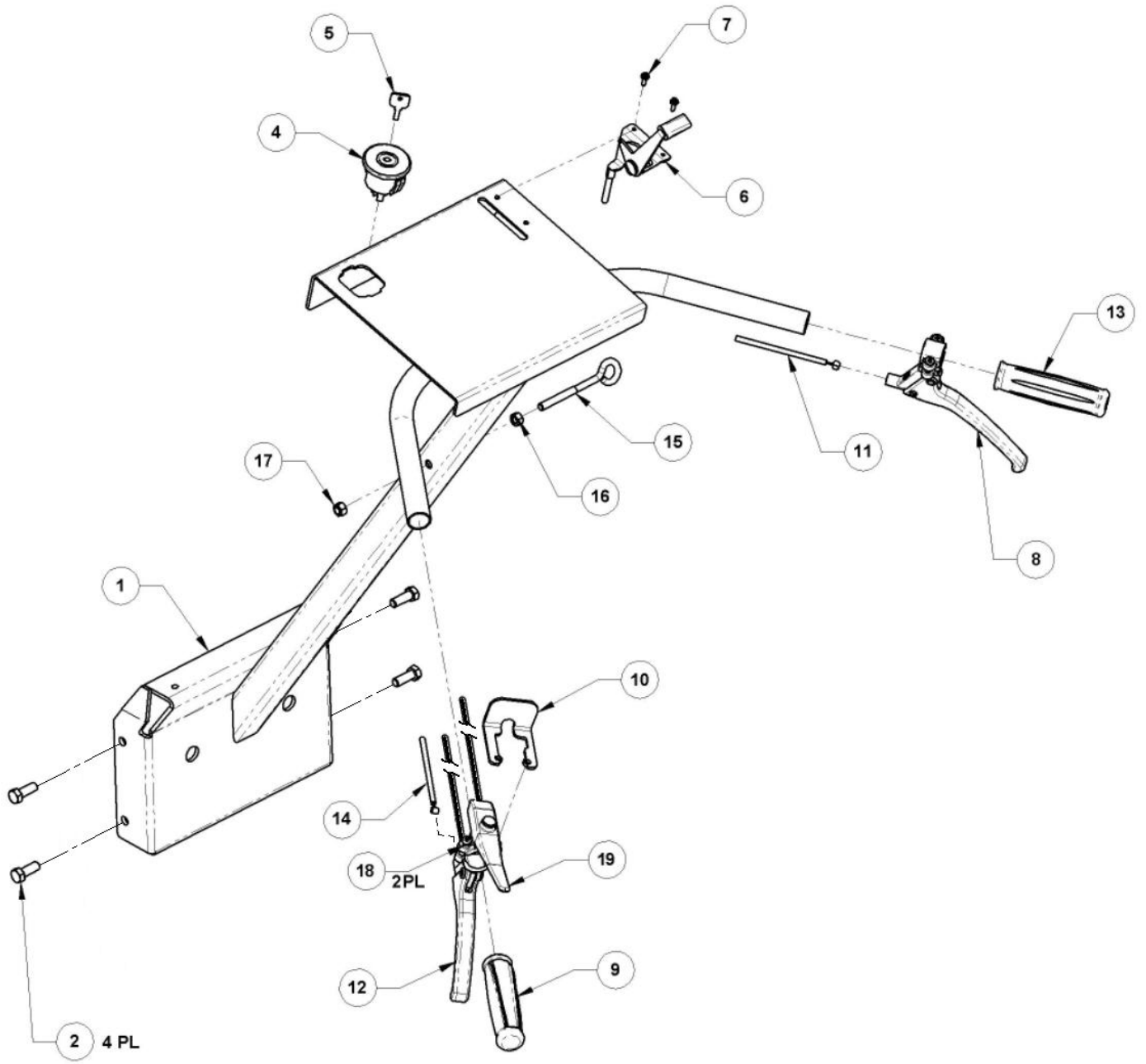
NOTE: Part numbers listed are available through Country Home Products, Inc.

Ref#	Part#	Description	Safety and Information Labels	
01	165361	Handlebar Assy w/Control Panel	225851	Label, Control Panel
02	120301	Screw, 3/8"-16 x 1-1/2", Tri-Lobe	173351	Label, Gear Shift
04	165201	Switch, Snap-In	179251	Label, Shift Lever
05	157201	Key, AT2 Ignition Switch	124371	Label, American Flag
06	139051	Cable, Throttle, 50"	127811	Label, Warning, Add Oil
07	150491	Screw, 8-32 x 1/2"	136491	Label, Danger
08	165171	Lever, Wheel Clutch, 1"	136831	Label, Caution Hot Surface
09	164951	Grip, Handlebar, Ergonomic, 1"	137581	Label, Check Oil
10	164971	Guard, Switch	148231	Label, Safety Icons
11	175381	Cable, Traction Drive,	211651	Label, Throttle
12	180951	Lever, Blade Engage, w/ Switch and Harness Adapter	211641	Label, Warning
13	164961	Grip, Handlebar, Plain, 1"		
14	178991	Cable, Blade Engage		
15	109161	Bolt, Eye		
16	110691	Nut, 5/16"-18		
17	110761	Nut, Nylon Lock, 5/16"-18		
18	179231	Screw, M6 x 25mm		
19	181731	Operator Presence, w/Switch and Harness adapter		

Items Not Illustrated

- 180941 Wire Harness, B&S
- 112141 Cable Tie, 7-1/2", black

Schematic - Handlebar Assembly



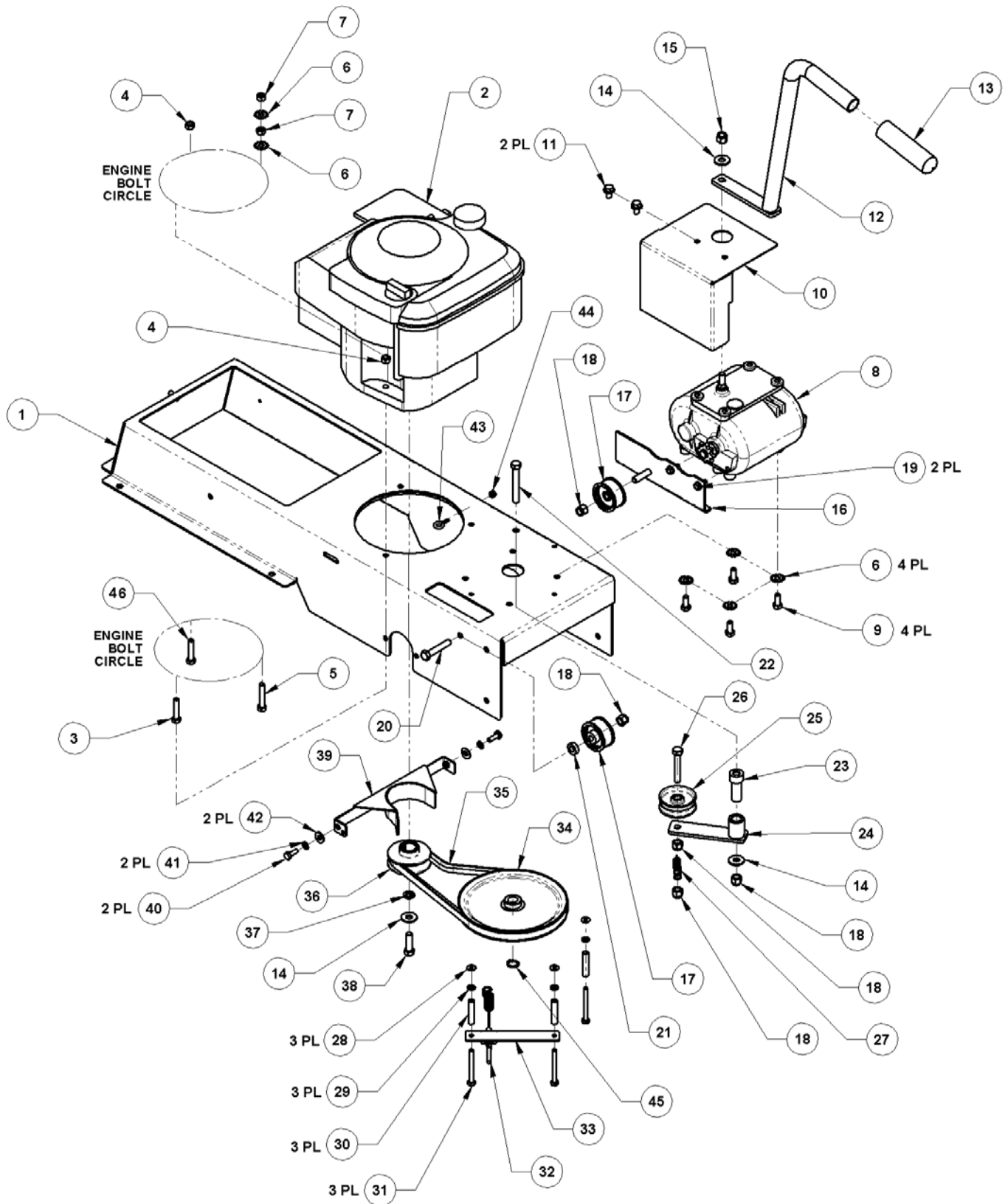
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Parts List - Frame and Drive Assembly

NOTE: Part numbers listed are available through Country Home Products, Inc.

Ref#	Part#	Description	Ref#	Part#	Description
01	165341	Frame, Main, w/Engine Plate	36	175601	Pulley, Trans Drive, 2-3/4"
02	223491	Engine, 8.25 Ft.-Lbs. Torque, B&S, CA	37	165151	Washer, .385" ID x .691" OD
	224121	Engine, 8.25 Ft.-Lbs. Torque, B&S	38	165131	Bolt, 3/8"-24 x 1-1/4" GR 8
03	111591	Bolt, 5/16"-18 x 2-1/2" HCS	39	165431	Guide, Engine Belt
04	110761	Nut, Nylon Lock, 5/16"-18	40	119831	Bolt, 1/4"-20 x 3/4" HCS
05	150451	Bolt, 5/16"-18 x 1-3/4" HCS	41	112481	Washer, Lock, 1/4"
06	112501	Washer, Lock, 5/16"	42	112381	Washer, Flat 1/4"
07	110691	Nut, 5/16"-18	43	175521	Bolt, Eye 10-24
08	175421	Transmission, 3 Fwd. and 1 Rev.	44	118731	Nut, Nylon Lock, 10-24
09	123211	Bolt, 5/16"-18 x 3/4" HCS	45	111241	Ring, Retaining, 5/8", Type SH
10	165421	Cover, Transmission	46	134431	Bolt, 5/16"-18 x 1-1/2" HCS
11	111731	Screw, 5/16"-18 x 1/2", Tri-Lobe			
12	172721	Lever, Shift, F/B Scout			
13	150471	Grip, 1" OD Tube, 4.25" L			
14	165141	Washer, Flat, .385" ID x 1.390" OD			
15	150771	Nut, Nylon Lock, 3/8"-24			
16	172731	Plate, Chain Adjuster			
17	150481	Pulley, Flat Idler, 1-7/8" OD			
18	110751	Nut, Nylon Lock, 3/8"-16			
19	165491	Screw, 1/4"-20 x 5/8", Self-Tapping			
20	126861	Bolt, 3/8"-16 x 2" HCS			
21	112391	Washer, Flat 3/8" USS			
22	123371	Bolt, 3/8"-16 x 2-3/4" HCS			
23	173371	Bushing, Traction Drive Idler			
24	150611	Idler Arm, Traction Drive			
25	113071	Pulley, Flat Idler, 2-1/4"			
26	157121	Bolt, 3/8"-16 x 2-1/4" HCS			
27	150501	Spring, e, .438" OD x .045" wire			
28	112371	Washer, Flat, 10-24 USS			
29	101811	Washer, Lock, 1/4"			
30	173331	Guide, Belt, Trans Pulley			
31	111461	Bolt, 1/4"-20 x 2-1/2" HCS			
32	175381	Cable, Traction Drive			
33	165391	Anchor, Wheel Drive Cable			
34	173321	Pulley, V-belt, 7"			
35	150061	Belt, A31K, 1/2" x 33"			

Schematic - Frame and Drive Assembly



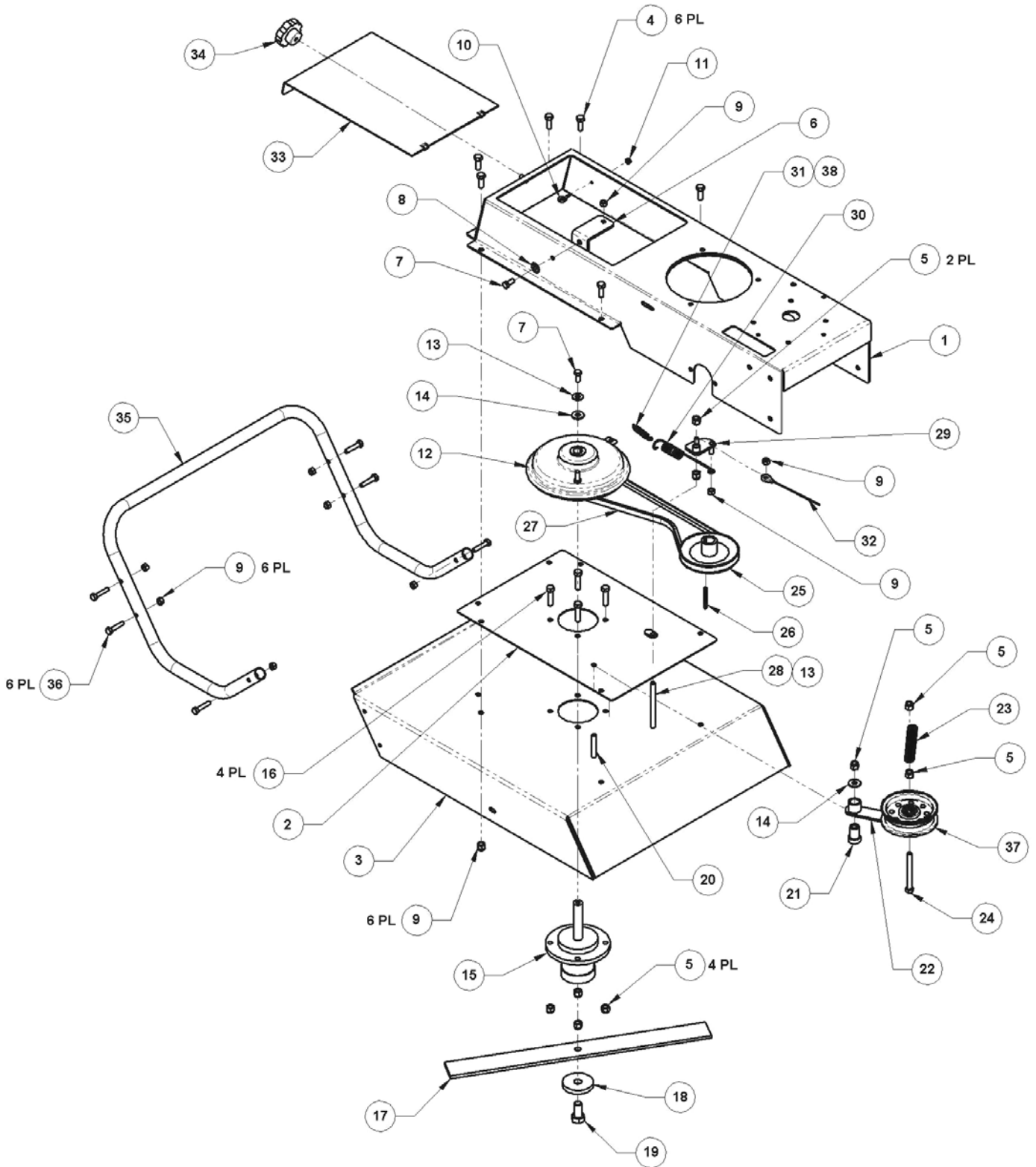
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Parts List - Brush Deck Assembly

NOTE: Part numbers listed are available through Country Home Products, Inc.

<u>Ref#</u>	<u>Part#</u>	<u>Description</u>	<u>Ref#</u>	<u>Part#</u>	<u>Description</u>
01	165341	Frame, Main, w/Engine Plate	22	165471	Arm, Idler
02	173361	Plate, Deck	23	101621	Spring, e, .750" OD x .105" wire
03	165351	Deck, 22"	24	179261	Bolt, 3/8"-16 x 3-1/2", GR 5
04	123211	Bolt, 5/16"-18 x 3/4" HCS	25	178801	Pulley, Deck Drive, 4.5"
05	110751	Nut, Nylon Lock, 3/8"-16	26	101191	Key, Square, 3/16" x 2"
06	165451	Strap, Anti-Rotation, Clutch	27	114431	Belt, 4L450, 1/2" x 45"
07	123361	Bolt, 5/16"-18 x 1-1/4" HCS	28	123431	Bolt, Hex, 3/8"-16 x 4-1/2"
08	112501	Washer, Lock, Split, 5/16"	29	179051	Cam, Blade Engage
09	110761	Nut, Nylon Lock, 5/16"-18	30	179061	Spring, e, .750" OD x .105" wire
10	175521	Bolt, Eye, 10-24	31	150501	Spring, e, .438" OD x .045" wire
11	118731	Nut, Nylon Lock, 10-24	32	178991	Cable, Blade Engage
12	175401	Clutch, PTO	33	165381	Access Panel
	214001	Clutch Kit	34	143661	Knob, Handlebar, 5/16"-18
13	112431	Washer, Lock, Split, 5/16"	35	165371	Push Tube w/Skid
14	165141	Washer, Flat, .385" ID x 1.390" OD	36	134431	Bolt, 5/16"-18 x 1-1/2" HCS
15	175441	Spindle Housing, Brush Deck	37	180121	Pulley, Flat Idler, 3.25"
16	119851	Bolt, 3/8"-16 x 1-1/2"	38	140021	Tubing, 1/2"
17	175371	Blade, Air-Tip, 22"	<u>Items Not Illustrated</u>		
18	101771	Washer, .64" ID x 2.5" OD	112381	Washer, Flat, 1/4" USS	
19	175451	Bolt, 5/8"-11 UNC x 1-1/4" HHCS	109481	Cap, 1", Round	
20	111531	Bolt, 3/8-16 x 2-1/4" HCS			
21	173311	Bushing, Deck Tensioner			

Schematic - Brush Deck Assembly



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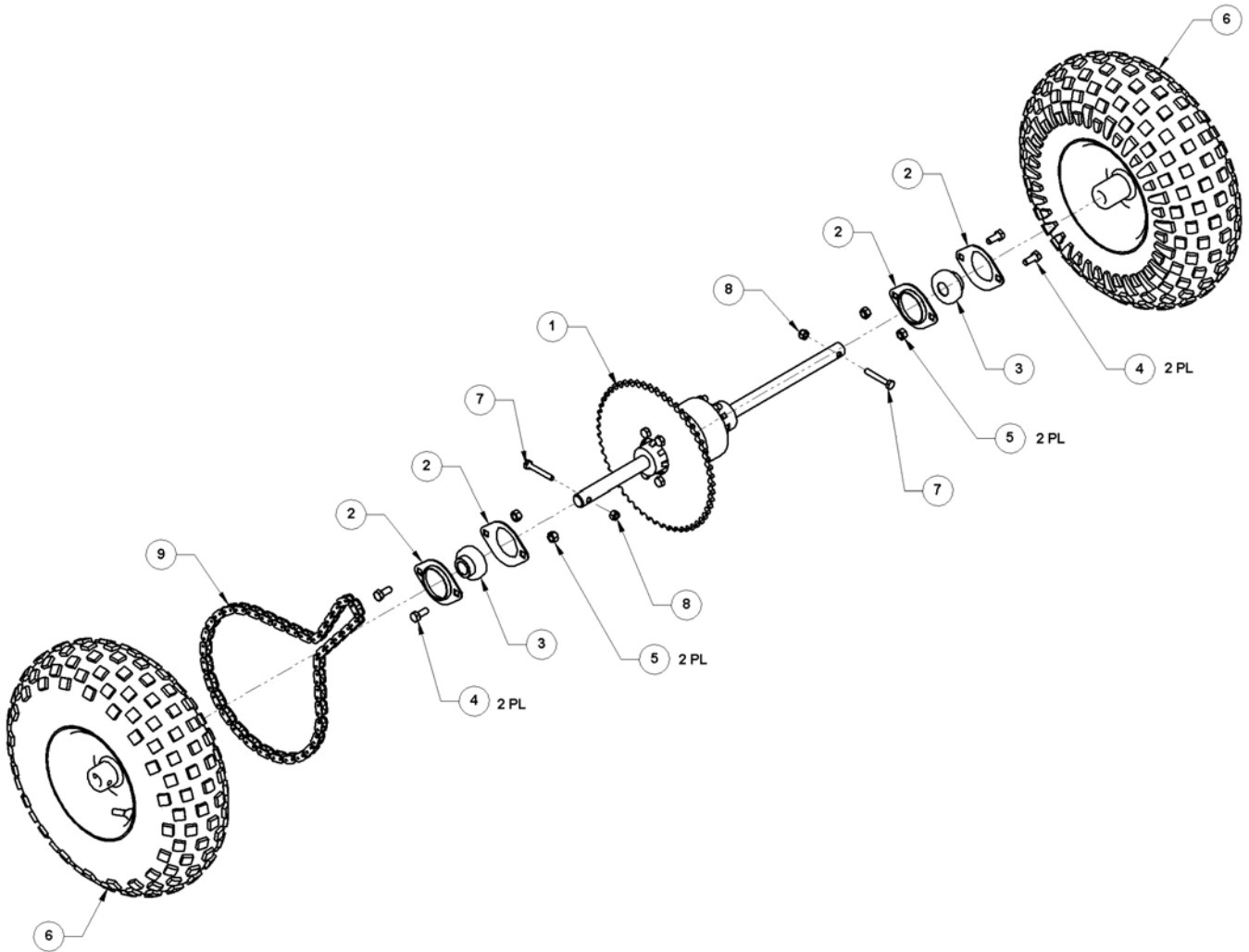
CALL TOLL-FREE 1-800-DR-OWNER

Parts List - Differential and Wheel Assembly

NOTE: Part numbers listed are available through Country Home Products, Inc.

Ref#	Part#	Description
01	180171	Differential, 700-268
02	108921	Flange, Ball Bearing, 2-hole
03	152171	Bearing, Ball, 3/4" Bore
04	123211	Bolt, 5/16"-18 x 3/4" HCS
05	110761	Nut, Nylon Lock, 5/16"-18
06	175431	Wheel, 14.5" x 7-6 2ply
07	111481	Bolt, 1/4"-20 x 1-3/4" HCS
08	110731	Nut, Nylon Lock, 1/4"-20
09	180151	Chain, #40, 77 Link w/ML

Schematic - Differential and Wheel Assembly



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Notes:

DR[®] SCOUT[™] FIELD and BRUSH MOWER



2-Year Limited Warranty

Terms and Conditions

The DR[®] SCOUT[™] FIELD and BRUSH MOWER is warranted for two (2) years against defects in materials or workmanship when put to ordinary and normal consumer use; ninety (90) days for any other use. The engine manufacturer warrants the engine separately.

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. (home of DR[®] Power Equipment) certifies that the DR[®] SCOUT[™] 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 two (2) years in consumer use, ninety (90) days for any other use.

The 2-Year Limited Warranty on the DR[®] SCOUT[™] FIELD and BRUSH MOWER starts on the date the machine ships from our factory. The 2-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 Drive Belts, Blade, Tires, Filters, and Spark Plug. This warranty does not cover attachments and accessories to the machine.

During the warranty period, the warranty holder is responsible for the machine transportation charges, if required. During the warranty period, warranty parts will ship 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[®] SCOUT[™] 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 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 HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

Daily Checklist for the DR SCOUT FIELD and BRUSH MOWER

To help maintain your DR SCOUT FIELD and BRUSH MOWER for optimum performance, we recommend you follow this checklist each time you use your machine.

- [] OIL: With the machine on a level surface, check the Engine oil level with the Dipstick and add more if necessary (only add oil to the level indicated on the Dipstick - DO NOT OVERFILL). Use SAE 30 high detergent motor oil.
- [] GAS: Fill the gas tank with clean, fresh, unleaded gasoline.
- [] ENGINE AIR COOLING SYSTEM: It is very important to keep the Engine clean of debris. Remove grass and other built-up materials from the Air Intake Screen before, during, and after you mow. Regularly remove debris from the Blower Housing and Cooling Fins. A dirty Engine retains heat and can cause damage to the internal Engine parts.
- [] 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.
- [] GENERAL CONDITION: Check the general condition of the machine, e.g.; nuts, bolts, welds etc.



COUNTRY HOME PRODUCTS, Inc.

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

1-800-DR-OWNER (376-9637) • www.dr-owner.com

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