





WARNING!

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



Congratulations on your purchase of a new TOW-BEHIND DR FIELD and BRUSH MOWER!

We have done our utmost to ensure that your TOW-BEHIND DR 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 TOW-BEHIND DR 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!

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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

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CHAPTER 1

INTRODUCING: THE TOW-BEHIND DR FIELD and BRUSH MOWER

This manual will help you set up and safely operate your new TOW-BEHIND DR 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, <u>COULD RESULT IN DEATH OR</u> <u>SERIOUS INJURY</u>.

CAUTION!

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

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 TOW-BEHIND DR 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.

CALL TOLL-FREE **1-800-DR-OWNER**

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Specifications

	13 HP Model	17 HP Model
Machine Warranty	2 year Residential, 90 day Commercial	2 year Residential, 90 day Commercial
Engine Warranty	2 year Residential, 1 year Commercial	2 year Residential, 2 year Commercial
Engine	13 HP Briggs & Stratton Engine, Electric	
5	Start, OHV, 1 Cast-Iron Sleeve, Full	Start, V-Twin OHV, 2 Cast-Iron Sleeves,
	Pressure Oil Pump w/ Oil Filter, 48 oz	Full Pressure Oil Pump w/ Oil Filter, 58
	Oil Capacity, Dual-Element Air Filter,	oz Oil Capacity, Dual-Element Air Filter,
	Fuel Pump, Electronic Ignition	Fuel Pump, Electronic Ignition
Fuel Tank	2.5 Gallons, Gasoline, Unleaded	2.5 Gallons, Gasoline, Unleaded
Wheels	18" Dia. x 6-7/8" Wide, All Terrain	18" Dia. x 6-7/8" Wide, All Terrain
	Tread, 28 PSI, Sealed, Tubeless	Tread, 28 PSI, Sealed, Tubeless
Remote Control Panel	Key Switch, Throttle Lever, and Blade	Key Switch, Throttle Lever, and Blade
		Engage Switch, 5' from Versa-Hitch™ to
	front of Control Panel.	front of Control Panel.
Deck Offset	0%, 50%, 75%, 100%	0%, 50%, 75%, 100%
	Out-Rigger™ Tow Bar	Out-Rigger™ Tow Bar
Adjustable Cutting Height	5", 6-1/4", and 7-1/2"	5", 6-1/4", and 7-1/2"
	Step & Mow™ Wheel Axle	Step & Mow™ Wheel Axle
	and Versa-Hitch™	and Versa-Hitch™
Cutting Width	44"	44"
Cutting Capacity	4' High Grass, 1-1/2" Thick Saplings	6' High Grass, 1-1/2" Thick Saplings
Blade Tip Speed	195 MPH or 17,180 Ft/Min	195 MPH or 17,180 Ft/Min
Swinging Blades	"PRO-TEK" Swinging Blades	"PRO-TEK" Swinging Blades
	2 Blades, .25" Thick x 16-1/2" Long	2 Blades, .25" Thick x 16-1/2" Long
	Hardened Steel	Hardened Steel
Deck	11 GA (.12" thick) Welded Steel	11 GA (.12" thick) Welded Steel
Spindle	1-3/8" Dia. Shaft with 2 Sealed 30 mm	1-3/8" Dia. Shaft with 2 Sealed 30 mm
	Bearings	Bearings
Spindle Housing	7 GA (.18" thick) Welded Steel	7 GA (.18" thick) Welded Steel
Push Bar	1-1/4" Dia. x 11 GA (.12" thick) Steel	1-1/4" Dia. x 11 GA (.12" thick) Steel
	Tubing	Tubing
Front Guard	3/16" Thick Compressed Rubber	3/16" Thick Compressed Rubber
Belt	5/8" x 53.8" Type BP51	5/8" x 53.8" Type BP51
Electric Clutch	75 ft-lb Ogura	75 ft-lb Ogura
Fuses	20 AMP Type AGC Fuse (Engine	20 AMP Type AGC Fuse (Engine
	Alternator Circuit)	Alternator Circuit)
	7 AMP Type AGC Fuse (Clutch Circuit)	7 AMP Type AGC Fuse (Clutch Circuit)
Machine Overall Width	64-1/4" Outside the Wheels	64-1/4" Outside the Wheels
Machine Overall Length	110" with the Tow Bar fully extended	110" with the Tow Bar fully extended
Machine Overall Height	28-1/4"	28-7/8"
Machine Weight at Tow Bar	35 lbs.	27 lbs.
Machine Weight	442 lbs.	465 lbs.
Shipping Weight	617 lbs.	641 lbs.
Shipping Crate	73" x 60" x 36"	73" x 60" x 36"
Shipping Clate		

CHAPTER 2 GENERAL SAFETY RULES:

WARNING!

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

Labels

Your TOW-BEHIND DR 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 TOW-BEHIND DR FIELD and BRUSH MOWER as you assemble and *before* you operate the machine. Replace damaged or missing safety and information labels immediately.



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.



Remove all objects that could be thrown by the Mower Blades.



Keep body parts away from the Mower Blades.



Use caution operating the machine on slopes.

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



WARNING: Add Oil

Before Starting Engine

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

CALL TOLL-FREE **1-800-DR-OWNER** 3



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



This label reminds you operate the machine safely and provides helpful operating information. (#222221)

WARNING!

THIS IS A HIGH-POWERED MACHINE WITH FAST MOVING PARTS OPERATING AT HIGH SPEEDS. YOU MUST OPERATE THIS MACHINE SAFELY. UNSAFE OPERATION CAN CREATE HAZARDS FOR YOU, AS WELL AS ANYONE ELSE IN THE WORK AREA. USE PROPER CLOTHING AND SAFETY GEAR WHEN OPERATING THIS MACHINE TO PREVENT OR MINIMIZE THE RISK OF SEVERE INJURY. ALWAYS TAKE THE FOLLOWING PRECAUTIONS WHEN OPERATING THE TOW-BEHIND DR FIELD AND BRUSH MOWER:

- ALWAYS WEAR PROTECTIVE GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS WHILE MOWING TO PROTECT YOUR EYES FROM POSSIBLE OBJECTS THROWN FROM THE MACHINE.
- WE RECOMMEND WEARING SAFETY SHOES WHEN USING THIS MACHINE. WEAR SHOES WITH NON-SLIP TREADS TO IMPROVE FOOTING ON SLIPPERY SURFACES. DO NOT USE THE MACHINE WEARING OPEN SANDALS OR WHILE BAREFOOT.
- WE RECOMMEND WEARING LONG PANTS AND GLOVES WHILE USING THIS MACHINE. BE SURE THE GLOVES FIT PROPERLY AND DO NOT HAVE LOOSE CUFFS OR DRAWSTRINGS.
- WE RECOMMEND THE USE OF EAR PROTECTORS OR EAR PLUGS RATED FOR AT LEAST 20 DBA TO PROTECT YOUR HEARING.
- ALLOW ONLY RESPONSIBLE INDIVIDUALS WHO ARE FAMILIAR WITH THESE GENERAL SAFETY RULES AND OPERATING INSTRUCTIONS TO USE YOUR TOW-BEHIND DR FIELD AND BRUSH MOWER. NEVER ALLOW PEOPLE WHO ARE UNFAMILIAR WITH THESE RULES AND INSTRUCTIONS TO USE YOUR MACHINE.
- HAVE A COMPLETE WORKING KNOWLEDGE OF YOUR TOW VEHICLE AND KNOW HOW TO HANDLE IT WITH THE TOW-BEHIND DR FIELD AND BRUSH MOWER ATTACHED.
- KEEP YOUR HANDS AND FEET AWAY FROM THE BLADES, BELT, BLADE PULLEY, AND CONCEALED AREAS WHILE THE ENGINE IS RUNNING. <u>NEVER REACH UNDER THE DECK OR GRAB HOLD OF ANY</u> PART OF THE DECK WHEN THE ENGINE IS RUNNING.
- 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 TOW-BEHIND DR FIELD AND BRUSH MOWER NEAR CHILDREN OR PETS, AND NEVER ALLOW CHILDREN TO OPERATE THE MACHINE. STOP THE TOW VEHICLE AND THE TOW-BEHIND DR FIELD AND BRUSH MOWER 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 BLADES.
- BE SURE THE BLADE CONTROL KNOB IS DOWN (DISENGAGED) BEFORE ATTEMPTING TO START THE ENGINE.
- NEVER GET OFF THE TOW VEHICLE WITHOUT FIRST STOPPING THE BLADES AND SHUTTING OFF THE TOW VEHICLE ENGINE AND THE TOW-BEHIND DR FIELD AND BRUSH MOWER ENGINE.
- DO NOT TOUCH THE MUFFLER AND ENGINE WHEN THE MACHINE IS IN USE AS THEY BECOME VERY HOT AND CAN CAUSE SEVERE BURNS.
- NEVER, UNDER ANY CONDITIONS, REMOVE, BEND, CUT, FIT, WELD, OR OTHERWISE ALTER STANDARD PARTS ON THE TOW-BEHIND DR 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.

Slope Operation

WARNING!

USE OF MACHINERY ON SLOPES IS A MAJOR FACTOR RELATED TO ACCIDENTS, WHICH CAN RESULT IN SEVERE PERSONAL INJURY. USE OF MACHINERY ON SLOPES REQUIRES CAUTION. IF YOU FEEL UNEASY USING THE TOW-BEHIND DR FIELD AND BRUSH MOWER ON A SLOPE, DO NOT OPERATE IT. ALWAYS TAKE THE FOLLOWING PRECAUTIONS WHEN USING THIS MACHINE ON SLOPES:

<u>ALWAYS:</u>

- OPERATE THE MACHINE UP AND DOWN THE FACE OF SLOPES AND AVOID GOING ACROSS. EXERCISE EXTREME CAUTION WHEN CHANGING DIRECTION ON SLOPES.
- REMOVE OBJECTS SUCH AS GLASS, LARGE STICKS, STONES, METAL OBJECTS, WIRE, ROPE, AND STRING-LIKE MATERIAL.
- WATCH FOR HOLES, RUTS, AND BUMPS ON THE GROUND.

NEVERS:

- NEVER OPERATE NEAR DROP-OFFS, DITCHES, OR EMBANKMENTS; YOU COULD LOSE CONTROL OF YOUR TOW VEHICLE AND/OR THE TOW-BEHIND DR FIELD AND BRUSH MOWER.
- NEVER OPERATE ON SLOPES GREATER THAN 20 DEGREES, OR ON ANY EXCESSIVELY STEEP SLOPE. SEE THE OPERATING PARAMETERS SECTION ON PAGE 21 FOR FURTHER RESTRICTIONS RELATING TO YOUR TOW VEHICLE.
- NEVER OPERATE ON WET, OR SLIPPERY SLOPES. REDUCED TRACTION COULD RESULT IN TIPPING OVER YOUR TOW VEHICLE AND/OR THE TOW-BEHIND DR FIELD AND BRUSH MOWER.
- NEVER PARK THE TOW VEHICLE ON A STEEP GRADE OR SLOPE.

Safety for Children

WARNING!

TRAGIC ACCIDENTS CAN OCCUR IF THE OPERATOR IS NOT ALERT TO THE PRESENCE OF CHILDREN. CHILDREN CAN BE ATTRACTED TO THE TOW-BEHIND DR FIELD AND BRUSH MOWER AND THE MOWING ACTIVITY. *NEVER* ASSUME THAT CHILDREN WILL REMAIN WHERE YOU LAST SAW THEM.

- KEEP CHILDREN OUT OF THE WORK AREA AND UNDER THE WATCHFUL CARE OF A RESPONSIBLE ADULT.
- BE ALERT AND ALWAYS TURN OFF YOUR TOW VEHICLE ENGINE AND THE DR TOW-BEHIND FIELD & BRUSH MOWER ENGINE IF CHILDREN ENTER THE WORK AREA.
- BEFORE, AND WHILE MOVING YOUR TOW VEHICLE BACKWARDS, LOOK BEHIND, AND *DOWN* FOR SMALL CHILDREN.
- NEVER ALLOW CHILDREN TO OPERATE THE TOW-BEHIND DR FIELD AND BRUSH MOWER.
- NEVER ALLOW CHILDREN TO RIDE ON THE MOWER, EVEN IF THE ENGINE IS NOT RUNNING.
- USE EXTRA CARE WHEN APPROACHING BLIND CORNERS, SHRUBS, TREES, OR OTHER OBJECTS THAT MAY OBSCURE YOUR VISION.

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 AND ALWAYS FOLLOW THESE PRECAUTIONS:

- NEVER RUN THE TOW-BEHIND DR FIELD AND BRUSH MOWER 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, 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 TOW-BEHIND DR FIELD AND BRUSH MOWER ENGINE TO COOL COMPLETELY BEFORE STORING IN ANY ENCLOSURE. NEVER STORE THE MACHINE WITH GAS IN THE TANK OR WITH GAS IN A FUEL CONTAINER NEAR AN OPEN FLAME OR SPARK SUCH AS A WATER HEATER.
- NEVER MAKE ADJUSTMENTS OR REPAIRS WITH THE ENGINE RUNNING. BEFORE MAKING AN ADJUSTMENT OR REPAIR, SHUT OFF THE TOW-BEHIND DR FIELD AND BRUSH MOWER ENGINE, WAIT FIVE (5) MINUTES TO COOL, THEN DISCONNECT THE SPARK PLUG WIRE(S) AND KEEP THE WIRE(S) AWAY FROM THE SPARK PLUG(S) TO PREVENT ACCIDENTAL STARTING.
- NEVER CHECK FOR AN IGNITION SPARK WITH THE SPARK PLUG OR SPARK PLUG WIRE(S) REMOVED. ALWAYS USE AN APPROVED SPARK TESTER.
- NEVER TAMPER WITH SAFETY DEVICES. REGULARLY CHECK THEIR PROPER OPERATION.
- NEVER CHANGE THE ENGINE GOVERNOR SETTINGS OR MODIFY THE ENGINE SPEED. MODIFICATIONS WILL VOID YOUR WARRANTY.
- TO REDUCE FIRE HAZARD, KEEP THE ENGINE AND MUFFLER AREA FREE OF DEBRIS BUILD-UP SUCH AS LEAVES, GRASS, OIL, GREASE, OR ANY OTHER COMBUSTIBLE MATERIAL. CLEAN THE ENGINE AREA AFTER EACH USE.
- NEVER OPERATE THE ENGINE WITHOUT THE MUFFLER. INSPECT THE MUFFLER PERIODICALLY AND REPLACE IF NECESSARY. IF THE ENGINE IS EQUIPPED WITH A MUFFLER DEFLECTOR, INSPECT IT PERIODICALLY AND REPLACE IF NECESSARY.
- 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 THE AIR FILTER.
- ALWAYS CHECK FUEL LINES AND FITTINGS FREQUENTLY FOR CRACKS OR LEAKS, REPLACE IF NECESSARY.

General Safety

WARNING!

SAFE OPERATION OF THE TOW-BEHIND DR FIELD AND BRUSH MOWER IS NECESSARY TO PREVENT OR MINIMIZE THE RISK OF <u>DEATH OR SERIOUS INJURY</u>. UNSAFE OPERATION CAN CREATE A NUMBER OF HAZARDS FOR YOU. ALWAYS TAKE THE FOLLOWING PRECAUTIONS WHEN OPERATING THIS MACHINE:

- THE TOW-BEHIND DR FIELD AND BRUSH MOWER IS A POWERFUL TOOL AND NOT A PLAYTHING. WHEN USING THIS MACHINE, EXERCISE EXTREME CAUTION AT ALL TIMES. THE DESIGN OF THIS MACHINE IS TO MOW GRASS AND BRUSH. DO NOT USE IT FOR ANY OTHER PURPOSE.
- THE OPERATOR OR USER OF THE TOW-BEHIND DR FIELD AND BRUSH MOWER IS RESPONSIBLE FOR ACCIDENTS OR HAZARDS OCCURRING TO OTHER PEOPLE, THEIR PROPERTY, AND THEMSELVES.
- ALWAYS MOUNT THE REMOTE CONTROL PANEL WITHIN EASY REACH OF THE OPERATOR'S POSITION.
- KNOW HOW TO QUICKLY STOP THE TOW-BEHIND DR FIELD AND BRUSH MOWER. SEE PAGE 22.
- NEVER ALLOW PEOPLE OR PETS TO RIDE ON THIS MACHINE, EVEN WITH THE ENGINE TURNED OFF.
- IF THE MACHINE SHOULD MAKE AN UNUSUAL NOISE OR VIBRATION, SHUT OFF THE TOW VEHICLE AND THE TOW-BEHIND DR FIELD AND BRUSH MOWER ENGINES. VIBRATION IS GENERALLY A WARNING OF TROUBLE. WAIT FIVE (5) MINUTES FOR THE TOW-BEHIND DR FIELD AND BRUSH MOWER ENGINE TO COOL. DISCONNECT THE SPARK PLUG WIRE(S) AND THEN INSPECT THE MACHINE FOR CLOGGING, OR LOOSE ENGINE MOUNTING BOLTS. CLEAR ANY OBSTRUCTIONS AND REPAIR AND/OR REPLACE DAMAGED PARTS.
- THE MOWER BLADES ARE SHARP AND CAN CUT. WRAP THE BLADES OR WEAR GLOVES, AND USE EXTRA CAUTION WHEN SERVICING.
- ALWAYS KEEP THE MACHINE IN GOOD SAFE OPERATING CONDITION. ALWAYS MAKE CERTAIN NUTS AND BOLTS ARE TIGHT AND ALWAYS USE THE SUPPLIED SELF-LOCKING HARDWARE. DO NOT USE SUBSTITUTE HARDWARE.
- ALWAYS SHUT OFF THE TOW VEHICLE ENGINE TOW-BEHIND DR FIELD AND BRUSH MOWER ENGINE, WAIT FIVE (5) MINUTES TO COOL, AND DISCONNECT THE SPARK PLUG WIRE(S) BEFORE ATTEMPTING TO REMOVE GRASS OR DEBRIS FROM THE UNDERSIDE OF THE DECK.
- USE THE TOW-BEHIND DR FIELD AND BRUSH MOWER ONLY IN DAYLIGHT AND GIVE COMPLETE AND UNDIVIDED ATTENTION TO THE JOB AT HAND.
- DO NOT HURRY OR TAKE THINGS FOR GRANTED WHEN USING THE TOW-BEHIND DR FIELD AND BRUSH MOWER. WHEN IN DOUBT ABOUT THE MACHINE OR YOUR SURROUNDINGS, STOP THE MOWING ACTIVITY AND TAKE TIME TO LOOK THINGS OVER.
- DISENGAGE THE BLADES AND EXERCISE EXTREME CAUTION WHEN ON OR CROSSING DRIVES, WALKS, OR ROADS. STAY ALERT FOR HIDDEN HAZARDS OR TRAFFIC.
- IF LEAVING THE MACHINE, SHIFT THE TOW VEHICLE INTO NEUTRAL AND SET THE PARKING BRAKE; TURN OFF THE TOW VEHICLE ENGINE AND REMOVE ITS KEY; TURN OFF THE TOW-BEHIND DR FIELD AND BRUSH MOWER ENGINE AND REMOVE ITS KEY.
- DO NOT OPERATE THE MOWER WHEN UNDER THE INFLUENCE OF ALCOHOL, DRUGS, OR MEDICATION.
- SEE THE MANUFACTURER'S INSTRUCTIONS FOR PROPER OPERATION AND INSTALLATION OF ACCESSORIES. ONLY USE ACCESSORIES APPROVED BY COUNTRY HOME PRODUCTS, INC.
- 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 THE TOW-BEHIND DR FIELD AND BRUSH 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 TOW-BEHIND DR FIELD and BRUSH MOWERS shipped to California, New Mexico, 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: THE TOW-BEHIND DR 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 new machine by reviewing *Figure 1* on the following page before beginning the steps outlined in this chapter. If you have any questions at all, please feel free to contact our Technical Support Representatives at our Toll-Free number: 1-800-DR-OWNER (376-9637).

TOW-BEHIND DR FIELD and BRUSH MOWER Controls and Features

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





Unpacking and Assembling the Machine

NOTE: Unpacking and assembling the TOW-BEHIND DR FIELD and BRUSH MOWER is a two-person job as the 13 HP unit weighs 442 pounds and the 17 HP unit weighs 465 pounds. We recommend you have an extra set of hands available before you begin.

Parts Supplied in Crate:

- TOW-BEHIND DR FIELD and BRUSH MOWER
- Safety & Operating Instructions Manual
- Briggs & Stratton or Kawasaki Engine Manual
- Small Parts Bag:
 - Hitch Tongue Extender with 1/2" x 2" Bolt, Lock Nut and Washers
 - Hook and Loop Straps
 - Plastic hose (oil drain)
 - Extra Zip-Tie Wraps

Tools and Supplies Needed:

- Pry Bar
- Metal Shears
- Hammer
- Gloves and Eye Protection

CAUTION!

- STABILIZE THE SHIPPING CONTAINER ON CLEAN FLAT TERRAIN BEFORE ATTEMPTING TO UNPACK AND ASSEMBLE THE MACHINE.
- ALWAYS WEAR EYE PROTECTION AND STAND TO ONE SIDE WHEN CUTTING THE BANDING. THE BANDING IS UNDER A LOT OF TENSION AND CAN CAUSE INJURY WHEN YOU RELEASE THE TENSION.
- USE CAUTION AROUND EXPOSED NAILS WHEN UNCRATING THE MACHINE.
 - 1. Pry off and remove the top cross members of the shipping crate. <u>Be careful of the nails when</u> <u>removing the boards.</u>
 - 2. Pry off and remove the crate sides; the two (2) long sides first, and then the two (2) short sides.
 - 3. Stand to one side and cut any bands holding the machine to the shipping pallet and the bands holding the Remote Control Panel carton to the Push Bar. <u>Be careful when cutting the banding.</u>

WEAR GLOVES AND BE VERY CAREFUL WHEN HANDLING THE DECK. THE BLADES ARE VERY SHARP, AND MAY SPIN AS YOU MANEUVER THE DECK.

- 4. The Out-Rigger[™] Tow Bar shipped unassembled; remove it from the pallet.
- 5. Raise the Mower Deck Height to the highest setting (7-1/2") to clear the blocking beneath the back of the machine (see page 24) and then roll the Mower off the shipping pallet.
- 6. Remove the Blade Protector from the Blades. (See CAUTION note above)
- 7. Do not discard your pallet and packaging material until you are fully satisfied with your new TOW-BEHIND DR FIELD and BRUSH MOWER.

About the Battery

The TOW-BEHIND DR FIELD and BRUSH MOWER comes with a 12-Volt, maintenance-free, rechargeable, sealed lead acid Battery. Properly maintained and charged, the Battery provides years of dependable service.

WARNING!

ELECTRICAL HAZARD: PREVENT FIRE

- NEVER MODIFY THE TOW-BEHIND DR FIELD AND BRUSH MOWER'S ELECTRICAL SYSTEM. MODIFICATIONS COULD RUIN THE ELECTRICAL SYSTEM AS WELL AS CAUSE A FIRE, RESULTING IN SERIOUS INJURY.
- USING ELECTRICAL COMPONENTS OTHER THAN THOSE SUPPLIED WITH YOUR MACHINE COULD CAUSE THE ELECTRICAL SYSTEM TO OVERHEAT, EXPLODE, OR START A FIRE.
- USING THE WRONG TYPE OF BATTERY OR CHARGER COULD CAUSE A FIRE OR EXPLOSION, RESULTING IN SERIOUS INJURY.
- USE THE CHARGER ONLY IN DRY LOCATIONS. AVOID CONTACT WITH WATER.
- ONLY ADULTS SHOULD HANDLE THE BATTERY. IT CONTAINS SULFURIC ACID (AN ELECTROLYTE) AND THE BATTERY IS HEAVY; DROPPING IT COULD RESULT IN SERIOUS INJURY.
- NEVER ALLOW CHILDREN TO CHARGE THE BATTERY. THE ELECTRICITY INVOLVED IN CHARGING THE BATTERY COULD INJURE A CHILD.
- EXAMINE THE CHARGER, ITS CONNECTORS, AND THE BATTERY FOR EXCESSIVE WEAR OR DAMAGE EACH TIME YOU CHARGE THE BATTERY. IF YOU SEE ANY EXCESSIVE WEAR OR DAMAGE, DO NOT USE THE CHARGER OR THE BATTERY, REPLACE THEM.
- NEVER LIFT OR CARRY THE BATTERY BY THE CABLES OR TERMINALS. THIS CAN DAMAGE THE BATTERY AND POSSIBLY START A FIRE, RESULTING IN SERIOUS INJURY. LIFT AND CARRY THE BATTERY ONLY BY ITS CASE.
- DO NOT SHORT CIRCUIT THE BATTERY.
- READ THE SAFETY INSTRUCTIONS ON THE BATTERY.

Connecting the Battery Wire

We ship all Electric-Starting systems with the negative terminal Battery wire disconnected. This prevents the Battery from discharging during shipment. Before using your TOW-BEHIND DR FIELD and BRUSH MOWER, you must connect the Battery wire.

Tools Needed:

(2) 5/16" Wrench or Socket

Connect the Green negative wire to the negative terminal on the Battery (Figure 2).



NOTICE!

- YOU MUST ADD OIL BEFORE STARTING THE ENGINE. THIS MACHINE SHIPPED WITHOUT OIL. TRACES OF OIL MAY BE IN THE RESERVOIR FROM FACTORY TESTING, BUT <u>YOU MUST ADD OIL</u> <u>BEFORE STARTING THE ENGINE</u>. FILL THE RESERVOIR SLOWLY, CHECKING THE DIPSTICK FREQUENTLY TO AVOID OVERFILLING.
- TO GET AN ACCURATE READING WHEN CHECKING THE OIL LEVEL:
 - \Rightarrow THE MACHINE SHOULD BE ON A LEVEL SURFACE.
 - \Rightarrow THE DIPSTICK <u>SHOULD BE SCREWED DOWN</u> ON BRIGGS & STRATTON ENGINES.
 - \Rightarrow THE DIPSTICK <u>SHOULD *NOT* BE SCREWED DOWN</u> ON KAWASAKI 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 HD (High Detergent) oil. Other types of oil could cause problems with the operation of your machine. Please refer to your Engine Owner's Manual for detailed oil information.

Approximate Engine Oil Required				
Briggs & Stratton - 13 HP	48 oz. (1.4 L)			
Kawasaki - 17 HP	58 oz. (1.7 L)			

- Place the machine on a level surface and initially add 32 oz. of SAE 30 High Detergent oil (recommended by the Engine Manufacturer) into the Oil Fill (*Figure 3*) 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 Fuel Tank to not more than 1/4" from the bottom of the Fill Neck with fresh, unleaded gas. See the Engine Owner's Manual for more information.



Briggs & Stratton 13 HP Engine



Kawasaki 17 HP Engine

Figure 3

Attaching the Out-Rigger[™] Tow Bar to the TOW-BEHIND DR FIELD and BRUSH MOWER

WARNING!

WHEN ATTACHING THE TOW BAR AND CONTROL CABLES, YOU MUST FIRST DISCONNECT THE SPARK PLUG WIRE(S), KEEPING IT AWAY FROM THE SPARK PLUG(S) TO PREVENT ACCIDENTAL STARTING OF THE ENGINE.



Figure 4





Tool Needed:

- 7/16" Wrench or Socket
- Using a 7/16" Wrench or Socket, remove the three (3) Bolts and Washers that retain the Black Pulley Cover and remove the Cover (*Figure 4*).
- 2. Locate and remove the Tow Bar Retaining Pin and Collar from the Pivot Pin on the front of the Mower Deck (*Figure 4*).
- 3. Pull the Handle of the Tow Bar Locking Pin up so its Cross Pin is above the Tow Bar and then twist the Handle 90° so the Cross Pin rests on the Tow Bar (*Figure 5*).
- Adjusting Tip: Enlist the help of another person to hold the Tow Bar level during the next step.
- 4. Place the Tow Bar over the Pivot Pin and install the Collar and the Tow Bar Retaining Pin (*Figure 5*).
- **NOTE:** The Remote Control Panel Throttle Cable and Wire Cord are routed inside the Tow Bar housing. Use care not to pinch them when attaching the Tow Bar over the Pivot Pin.
- 5. Pull the Tow Bar Locking Pin Handle (*Figure 5*) up, turn it 90°, and release the Locking Pin into the center hole in the Tow Bar Mount Plate (*Figure 5*).

Connecting the Remote Control Cable and Wire Cord

Wire Cord

- 1. Locate the Wire Cord under the orange Fuel Tank Mount (*Figure 6*).
- 2. Connect the terminals of the Wire Cord from under the Fuel Tank Mount to the terminals of the wire Cord coming from the Tow Bar (they are keyed and color coded) by pushing them together until they snap in place (*Figure 6*).
- 3. Insert the Cable Zip-Tie provided through the holes in the Black Belt Cover (*Figure 4* on page 16) and replace the Black Belt Cover on the machine by slipping it under the Wire Cord just connected. Make sure the Wire Cord Connectors are tucked back under the Fuel Tank Mount and that the Wire Cord is routed through the Notch (*Figure 6*) in the Fuel Tank Mount.
- 4. Reinstall the three (3) Bolts and Washers to retain the Black Pulley Cover.
- 5. Wrap the Cable Zip-Tie around the Wire Cord and pull it tight. It should squeeze into the Wire Cord.

Throttle Control Cable - 13 HP B&S

Tool Needed:

- Blade Screwdriver or 5/16" Nut Driver
- 1. Route the Throttle Control Cable from the Tow Bar behind the Fuel Tank straps (*Figure 7*).
- 2. Move the Throttle Control to the Choke position on the Remote Control Panel.
- 3. Insert the "Z"-Bend of the Cable end into the hole in the Nylon Slide on the side of the carburetor (*Figure 8*).

Nylon Slide





Figure 6



Figure 7

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Figure 9



- 5. Pull the Cable (Figure 9) as far as possible. This will move the Engine mechanism into the Choke position.
- 6. Tighten the Cable Clamp Bolt while holding the Cable in the Choke position.

Throttle/Choke Cable - 17 HP Kawasaki

Tool Needed:

- Phillips Screwdriver, or Blade Screwdriver, or 5/16" Nut Driver
- 1. Route the Throttle Control Cable from the Tow Bar behind the Fuel Tank straps (Figure 7 on page 17).
- 2. Move the Throttle Control to the Choke position on the Remote Control Panel.
- 3. Loop the end of the Return Spring over the "Z"-Bend of the Throttle Cable (Figure 10).
- 4. Insert the "Z"-Bend of the Cable end into the top hole in the Throttle Pivot Arm on the side of the carburetor (Figure 10).
- 5. Using a Screwdriver or Nut Driver, loosen the Throttle Cable Clamp Bolt (Figure 10), and slip the Cable Sheath behind the Clamp.
- 6. Pull the Cable (Figure 10) as far as possible. This will move the Pivot Arm into the Choke position.
- 7. Tighten the Cable Clamp Bolt while holding the Cable in the Choke position.



Figure 10

Connecting the TOW-BEHIND DR FIELD and BRUSH MOWER to your Tow Vehicle

The Versa-Hitch[™] on the TOW-BEHIND DR FIELD and BRUSH MOWER Out-Rigger[™] Tow Bar has five (5) positions to accommodate different Tow Vehicle hitch heights (*Figure 11*). The Versa-Hitch[™] positions are also for leveling the machine according to the Cutting Height setting of the machine. See page 24.

- **NOTE:** If the Hitch Plate on your Tow Vehicle is too thick (more than 3/8" thick) for the openings in the Versa-Hitch[™], attach the supplied Hitch Extender (**Figure 12**) to your Tow Vehicle using the hardware provided.
- 1. Move your Tow Vehicle to a reasonably flat area and set the Parking Brake. Lift the Versa-Hitch™ and slide one of its position openings onto the Hitch Plate of your Tow Vehicle.

NOTICE!

USE THE VERSA-HITCH™ POSITION THAT MAKES THE OUT-RIGGER™ TOW BAR LEVEL WITH THE GROUND.

2. Align the hole in the center of the Hitch Plate on your Tow Vehicle with the hole in the Versa-Hitch[™]. Insert the Hitch Pin and attach the Safety Hitch Clip (*Figure 11*).



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Attaching the TOW-BEHIND DR FIELD and BRUSH MOWER Remote Control Panel

- 1. Locate the Remote Control Panel (*Figure 13*) on your Tow Vehicle within reach of the seated Tow Vehicle driver.
- 3. Secure the Remote Control Panel by threading the Hook and Loop Straps provided with your TOW-BEHIND DR FIELD and BRUSH MOWER, through the Remote Control Panel Mounting Slots (*Figure 13*) and then around a fixed object on your Tow Vehicle.

NOTICE!

BE SURE TO ROUTE THE CONTROL CABLE AND WIRE CORD BETWEEN THE HITCH AND THE REMOTE CONTROL PANEL AWAY FROM THE MUFFLER OF THE TOW VEHICLE.



Figure 13

Checking the Tire Pressure

There should be 28 psi in each Tire.

NOTE: They are Self-sealing Tubeless Tires to protect against minor punctures.

CHAPTER 4

OPERATING: THE TOW-BEHIND DR FIELD and BRUSH MOWER

This chapter covers the procedures for starting and stopping your new TOW-BEHIND DR FIELD and BRUSH MOWER and discusses basic operation features. You may find it helpful to review the TOW-BEHIND DR FIELD and BRUSH MOWER Controls and Features on page 12 before reading this chapter.

A WARNING!

- THE DESIGN OF THIS MACHINE IS FOR CUTTING GRASS AND BRUSH. NEVER USE THIS MACHINE FOR ANY OTHER PURPOSE AS IT COULD CAUSE SERIOUS INJURY.
- CONTACT WITH INTERNAL ROTATING PARTS WILL CAUSE SERIOUS PERSONAL INJURY. NEVER PUT HANDS, FACE, FEET, OR CLOTHING UNDER THE DECK OR NEAR THE DISCHARGE AREA WITH THE ENGINE RUNNING.
- BEFORE PERFORMING ANY MAINTENANCE PROCEDURE OR INSPECTION, STOP THE ENGINE AND WAIT FIVE (5) MINUTES TO ALLOW ALL PARTS TO STOP AND COOL. DISCONNECT THE SPARK PLUG WIRE(S) KEEPING IT AWAY FROM THE SPARK PLUG(S).

Operating Parameters

We recommend a few types of Tow Vehicles for the TOW-BEHIND DR FIELD and BRUSH MOWER. The Tow Vehicle may be either 2 or 4 wheel drive, but some vehicle types are not suitable for rough hilly terrain or heavy brush conditions. See the Tow Vehicle Restrictions section below.

- ATV
- Lawn/Garden Tractor (17 HP and above and weighing at least 500 pounds)
- Riding Lawn Mower (14 HP and above and weighing at least 400 pounds)
- Utility Vehicle
- Compact or Sub-Compact Tractor

Tow Vehicle Restrictions:

- You <u>must</u> be able to secure the Remote Control Panel of the TOW-BEHIND DR FIELD and BRUSH MOWER within easy reach of the driver seated on the Tow Vehicle. The front of the Control Panel is 5' from the Versa-Hitch™. A Utility Vehicle with a bed longer than 2 ft. will not meet this restriction so you cannot use it as a Tow Vehicle.
- Riding Lawn Mowers with Engines under 17 HP and weighing less than 500 pounds are not suitable for use on slopes greater than 5°.
- Never operate your TOW-BEHIND DR FIELD and BRUSH MOWER on slopes greater than 20° using any type of Tow Vehicle.
- If your Tow Vehicle will not travel by itself over the terrain you plan to use it with the TOW-BEHIND DR FIELD and BRUSH MOWER, then it will not be suitable as a Tow Vehicle over that terrain.

Tip: Riding Lawn Mowers will work best as a Tow Vehicle with their cutting deck removed.

- WE DO NOT RECOMMEND DRIVING OVER 5 MPH ON FLAT TERRAIN AND OVER 4 MPH ON ROUGH TERRAIN WHILE OPERATING YOUR TOW-BEHIND DR FIELD AND BRUSH MOWER.
- NEVER USE A TRUCK (2 OR 4WD) OR JEEP TO OPERATE THE TOW-BEHIND DR FIELD AND BRUSH MOWER. IT WOULD BE DIFFICULT TO SEE AND YOU CANNOT OPERATE THE MOWER CONTROLS FROM THESE TYPES OF TOW VEHICLES. USING THESE VEHICLES WILL VOID THE DR TOW-BEHIND FIELD & BRUSH MOWER WARRANTY.

Before Starting the Engine

WARNING!

INSPECT THE AREA WHERE YOU WILL BE WORKING. THE SITE MUST BE FREE OF POTENTIALLY HAZARDOUS OBSTACLES SUCH AS GLASS, LARGE STONES, STICKS, WIRE, ROPE, AND STRING-LIKE MATERIALS. MAKE SURE THERE ARE NO PEOPLE OR ANIMALS IN THE AREA AROUND THE TOW-BEHIND DR FIELD AND BRUSH MOWER.

- 1. Check the oil level every time you use the machine. See *Figure 3* on page 15.
- 2. Check the gasoline level (*Figure 3* on page 15).
- 3. Open the Fuel Shut-Off Valve, which is located in the Fuel Line. See *Figure 1* on page 12.
- 4. Make sure the Blade Control Knob is in the disengaged position (pushed down). See *Figure 1* on page 12.

NOTE: The Blade Control Knob must be DOWN, or the Engine will not start.

Starting

- 1. Push the Blade Control Knob down to disengage the Blades (*Figure 1* on page 12).
- 2. When starting a cold Engine, push the Throttle Control Lever up to the CHOKE position. When starting an already warm Engine, push the Throttle Control Lever down to the RUN position (*Figure 1* on page 12).
- 3. Turn the Key Switch to the center position (ON), and then on to the START position (*Figure 1* on page 12) until the Engine starts, then release. The Key will snap back to the center position (ON) and the Engine will continue to run.
- 4. As the Engine warms up, slowly adjust the Throttle to the Run position. Wait until the Engine runs smoothly before each Throttle adjustment. For maximum performance, operate the Engine with the Throttle in the RUN position.

Stopping the Engine

- 1. Disengage the Blades by pushing the Blade Control Knob down.
- 2. Move the Throttle Control Lever all the way down to the IDLE position and turn the Key to STOP.
- 3. Remove the Key for safety. The Key has a pressure lock that prevents it from vibrating loose during operation. To remove the Key, push it in and then quickly and firmly pull it out. If the Key becomes difficult to remove, apply a non-conductive lubricate into the Keyhole.
- **NOTE:** Close the Fuel Shut-Off Valve when transporting or storing the TOW-BEHIND DR FIELD and BRUSH MOWER.

NOTICE!

NEVER STOP THE ENGINE BY MOVING THE THROTTLE CONTROL LEVER TO THE CHOKE POSITION. THIS COULD CAUSE AN ENGINE BACKFIRE RESULTING IN ENGINE DAMAGE.

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Engaging the Blades

Engage the Blades by pulling UP on the Blade Control Knob (*Figure 1* on page 12).

Stopping the Blades

Push DOWN on the Blade Control Knob (*Figure 1* on page 12).

Adjusting the Mower Deck Height

A WARNING!

- SHUT OFF THE ENGINE BEFORE ADJUSTING THE DECK HEIGHT OR SERIOUS INJURY MAY RESULT. THE BLADES MAY SEVER YOUR FOOT IF IT STICKS UNDER THE DECK WITH THE ENGINE RUNNING.
- NEVER GET OFF THE TOW VEHICLE WITHOUT FIRST STOPPING THE BLADES AND SHUTTING OFF THE TOW VEHICLE ENGINE AND THE TOW-BEHIND DR FIELD AND BRUSH MOWER ENGINE.

The TOW-BEHIND DR FIELD and BRUSH MOWER Deck has three (3) cutting heights, 5", 6-1/4", and 7-1/2".

CAUTION!

KEEP YOUR FOOT CLEAR OF THE MOWER DECK WHEN ADJUSTING THE HEIGHT. YOU MAY PINCH YOUR FOOT IF IT STICKS UNDER THE DECK.

To change the cutting height, apply foot pressure to the Step & Mow[™] Height Adjuster (*Figure 14*) and at the same time, lift up on the spring loaded Deck Height Adjust Knob (*Figure 14*) and re-position the Knob to the desired height in one of the three (3) Height Adjust Notches on top of the Deck. Repeat this for the opposite side of the Deck.

NOTE: Make sure that the left and right side Adjust Knob is the same notch for both sides.

Tip: Since you previously leveled the Out-Rigger[™] Tow Bar when attaching it to your Tow Vehicle, if you changed Cutting Heights by two (2) positions up or down, just move the Versa-Hitch[™] (*Figure 11* on page 19) two (2) positions up or down. The distance between the openings in the Versa-Hitch[™] are the same distance as one Cutting Height change.



Offset Mowing

The Out-Rigger[™] Tow Bar allows you to offset the cutting path of the TOW-BEHIND DR FIELD and BRUSH MOWER up to 100% from the Tow Vehicle. The provided locking positions are 0%, 50%, 75%, and 100%. Offset mowing allows you to mow closer to equipment, trees, and fences and to drive in area already cut.

CAUTION!

WHEN PERFORMING OFFSET MOWING, ALWAYS BE SURE THAT THE OUT-RIGGER[™] TOW BAR ANGLE SETTING (*FIGURE* 15) AND THE VERSA-HITCH[™] ANGLE SETTING MATCH. THIS ALLOWS THE TOW-BEHIND DR FIELD AND BRUSH MOWER TO TRACK PARALLEL TO THE TOW VEHICLE.

Offset at the Tow Bar Mount Plate:

- Pull the Handle of the Tow Bar Locking Pin up so its Cross Pin is above the Tow Bar and then twist the Handle 90° so the Cross Pin rests on the Tow Bar (*Figure 15*).
- 2. Pull the Mower, using the Push Bar, until the Locking Pin approximately aligns with the Offset angle desired (*Figure 15*).
- 3. Pull up the Handle on the Locking Pin, twist it 90°, and drop Pin back into the Tow Bar Mount Plate.
- 4. Verify that the Locking Pin has dropped into the desired Offset position by moving the Mower slightly from side to side. If it is not already locked, you will hear the Locking Pin drop into place.

Offset at the Versa-Hitch™:

- Remove the Safety Hitch Pin (*Figure 16*) from the Versa-Hitch[™] and pull the Out-Rigger[™] Tow Bar to the position that matches the Tow Bar position on the Deck. Re-attach the Safety Hitch Pin.
- **NOTE:** The Versa-Hitch[™] is parallel to the machine when the Offset at the Deck and the Offset at the Hitch are matched correctly.



Figure 16

Slopes and Uneven Terrain

WARNING!

- CHECK THE OWNER'S MANUAL FOR YOUR TOW VEHICLE TO DETERMINE ITS RECOMMENDED TOWING CAPABILITIES ON SLOPES.
- WHEN OPERATING THE TOW-BEHIND DR FIELD AND BRUSH MOWER OVER UNEVEN TERRAIN OR SLOPES, USE EXTREME CAUTION NOT TO TIP OVER THE MACHINE.
- NEVER USE THE TOW-BEHIND DR FIELD AND BRUSH MOWER ON SLOPES GREATER THAN 20 DEGREES. DOING SO COULD RESULT IN SERIOUS INJURY OR DAMAGE TO YOUR MACHINE.
- IF YOU HAVE TO MOW ON SLOPING TERRAIN, MOW UP AND DOWN, NEVER ACROSS THE SLOPE, FOR BETTER CONTROL.

If the machine gets hung up

- 1. Disengage the Blades and STOP the Engine. NEVER try to free the machine from stumps or debris with the Blades engaged.
- 2. Try driving over or backing away from the obstacle.

WARNING!

- IF YOU NEED TO LEAVE THE TOW VEHICLE TO CLEAR DEBRIS FROM THE MOWER DECK, SET THE PARKING BRAKE AND SHUT OFF THE TOW VEHICLE ENGINE, DISENGAGE THE MOWER BLADES, SHUT OFF THE TOW-BEHIND DR FIELD AND BRUSH MOWER ENGINE AND DISCONNECT THE SPARK PLUG WIRE(S).
- NEVER TOUCH THE EXHAUST AREAS WHEN REACHING FOR THE SPARK PLUGS; THEY ARE VERY HOT.

Cutting Brush and Saplings

- 1. The cutting capacity is 1-1/2" saplings.
- 2. When cutting woody material, small saplings, etc., allow the machine to ride up and over material slowly. Adjust your forward speed to varying conditions.
- 3. 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.
- 4. If you are using Offset Mowing, keep the Offset at 75% when cutting heavy brush. See page 25.

Cutting Wet and Heavy Growth

- 1. Avoid steep slopes and other slippery areas.
- 2. Use a lower, slower speed when mowing in wet conditions.

CHAPTER 5 MAINTAINING: THE TOW-BEHIND DR FIELD and BRUSH MOWER

This chapter covers regular maintenance procedures that will ensure the best performance and long life of your TOW-BEHIND DR FIELD and BRUSH MOWER. For Engine maintenance, please refer to the Engine Owner's Manual that came with your machine. 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, YOU MUST FIRST DISCONNECT THE SPARK PLUG WIRE(S), AND DRAIN THE OIL AND GAS.

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 10 Hrs	Every 25 Hrs	Every 100 Hrs
Check Engine Oil Level				
Check General Condition, e.g. nuts, bolts, welds, etc.	A			
Check the Blades Sharpness				
Clean Engine Exterior & Cooling Fins				
Check Cable connections				
Check Tire Pressure to be 28psi				
Change Engine Oil and Filter	1 st time 5hrs			
Replace Air Filter				
Replace Spark Plug(s)				
Replace In-line Gas Filter				

Removing the Engine Oil and Filter

WARNING!

WHEN PERFORMING ANY ADJUSTMENT OR MAINTENANCE, YOU MUST FIRST SHUT OFF THE ENGINE, WAIT FIVE (5) MINUTES TO ALLOW PARTS TO COOL AND DISCONNECT THE SPARK PLUG WIRE(S), KEEPING IT AWAY FROM THE SPARK PLUG(S).

NOTE: Drain the oil when the Engine is warm. Warm oil drains quickly and completely.

Tools and Supplies Needed:

- Oil Filter Wrench (obtainable from a local auto parts or hardware store)
- Rags and a suitable container for used oil
- SAE 30 High Detergent Oil
- 1. Attach the Plastic Hose provided to the Quick Release Oil Drain Valve located on the side of the Engines (*Figure 17*). Turn the Valve counterclockwise and pull out to drain the oil into a suitable oil receptacle.
- The Engine Oil Filter is located on the side of the Engine (*Figure 17*). Using an Oil Filter Wrench, or grasping the Oil Filter firmly with your hand, unscrew the Oil Filter counterclockwise from the Engine. BE SURE THAT THE OLD FILTER GASKET COMES OFF WITH THE FILTER.
- 3. Wipe the mounting base for the Oil Filter with a clean cloth.
- 4. Apply a thin coat of clean motor oil to the new Oil Filter Gasket. DO NOT USE GREASE.
- 5. Line up the threads carefully to avoid cross threading and screw the new Oil Filter on until the Filter Gasket contacts the base, and then tighten the Oil Filter 3/4 to 1 turn. **DO NOT OVER TIGHTEN.**
- 6. Replace the oil by following the instructions on page 15.
- 7. Reattach the Spark Plug wire(s).

NOTE: Be sure to use environmentally safe disposal procedures in the disposing of the used oil.



<u>17 HP Kawasaki</u>

13 HP Briggs & Stratton

Figure 17

Removing and Replacing the Blades' Drive Belt

WARNING!

WHEN PERFORMING ANY ADJUSTMENT OR MAINTENANCE, YOU MUST FIRST SHUT OFF THE ENGINE, WAIT FIVE (5) MINUTES TO ALLOW PARTS TO COOL AND DISCONNECT THE SPARK PLUG WIRE(S), KEEPING IT AWAY FROM THE SPARK PLUG(S).

NOTICE!

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

Tools and Supplies Needed:

- 7/16" and 1/2" Wrench or Socket
- 9/16" Wrench
- Side Cutters or Scissors
- Hooked End Pulling Tool Optional (we suggest a Tent Peg Puller)
- New Belt Part Number 221331
- 1. Turn the Fuel Shut-Off Valve to the OFF position (*Figure 18*).
- 2. Using a 7/16" Wrench or Socket, remove the three (3) Bolts, Lock Washers, and Flat Washers that retain the Black Pulley Cover; cut the Zip-Tie around the Wire Cord (*Figure 5* on page 17) and remove the Cover.
- 3. Disconnect the Throttle Cable from the Engine and then slide it from behind the Fuel Tank Straps. See pages 17 & 18 and follow the steps in the reverse order for your Engine.
- 4. Using a 1/2" Wrench or Socket, remove the four (4) Bolts and Lock Washers that retain the Fuel Tank Mount (*Figure 18*).
- 5. Carefully lift and set the Fuel Tank Mount (*Figure 19*) to the Fuel Line side of the Engine.



Figure 18



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Figure 20

- 6. Using a 9/16" Wrench, remove the top Nut from the Belt Tension Spring Mounting Stud (*Figure 20*).
- 7. Using a Hooked End Pulling Tool, remove the Belt Tension Spring from the Mounting Stud by hooking the Tool in the Spring End and pulling the Spring up and over the Stud
- 8. Using a 7/16" Wrench or Socket, remove the two (2) Bolts and Lock Washers that retain the Rear Access Panel on the Mower (*Figure 21*) and remove the Panel.
- 9. Slip the old Drive Belt from the Drive Pulley (*Figure 22*) and from the Pulley beneath the Engine at the Rear of the Mower.
- 10. To install the new Belt, follow the above procedure in the reverse order making sure that the Belt is on the inside of the Tension Pulley (*Figure 20*).



NOTE: Use one of the extra Cable Zip-Ties initially provided to secure the Wire Cord (**Figure 5** on page 16).



Figure 22

Removing and Replacing the Swinging Blades

WARNING!

WHEN PERFORMING ANY ADJUSTMENT OR MAINTENANCE, YOU MUST FIRST SHUT OFF THE ENGINE, WAIT FIVE (5) MINUTES TO ALLOW PARTS TO COOL AND DISCONNECT THE SPARK PLUG WIRE(S), KEEPING IT AWAY FROM THE SPARK PLUG(S).

Tools and Supplies Needed:

- (2) 15/16" Wrench
- Gloves
- 1. Using two (2) 15/16" Wrenches, remove the Top Lock Nut (right-hand, regular thread), the Backing Nut, and then the Blade Bolt followed by the Pro-Tek[™] Swinging Blade (*Figure 23*).

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.

- 2. Reinstall the sharpened or a new Pro-Tek[™] Swinging Blade in the orientation shown in (*Figure 24*).
- 3. Install the Backing Nut until it seats finger tight against the Blade Carrier to allow for the Blade Swinging action (*Figure 23*).
- 4. Using two (2) 15/16" Wrenches, install and tighten the Lock Nut against the Backing Nut while holding the Backing Nut with one Wrench and tightening the Lock Nut with the other Wrench.
- 5. Repeat steps 1 through 3 for the other Pro-Tek[™] Swinging Blade.



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Replacing the Wheels



WHEN PERFORMING ANY ADJUSTMENT OR MAINTENANCE, YOU MUST FIRST SHUT OFF THE ENGINE, WAIT FIVE (5) MINUTES TO ALLOW PARTS TO COOL AND DISCONNECT THE SPARK PLUG WIRE(S), KEEPING IT AWAY FROM THE SPARK PLUG(S).

Tool Needed:

- 9/16" Wrench or Socket
- Wheel Part Number 222321
- 1. With the weight of the machine on the wheel, loosen (counterclockwise) the Axle Bolt (*Figure 25*) with a 9/16" Wrench or Socket.
- 2. Block the machine up off the ground so that the Wheel you are removing spins freely, remove the Axle Bolt, Lock Washer, Flat Washer, and Outer Bushing.
- 3. Slide the Wheel from the Axle.
- **NOTE:** If the Inner Bushing should slip out when removing the Wheel, simply re-insert it on the Step & Mow[™] Axle Shaft.
- 4. Replace the Wheel and hardware in the reverse order.




Battery Care

Proper care can extend the life of a Battery. Follow these recommendations to ensure your Battery's best performance and long life:

- Do not allow the Battery charge to get too low. If the machine is not used, charge the Battery every 4 6 weeks. Operate the Engine for at least 45 minutes to maintain proper Battery charge.
- Store an unused Battery in a dry area that does not freeze.
- Do not charge an already charged Battery. In theory, you cannot overcharge our Battery with a trickle charger; however, when a Battery is fully charged and the charger is still on, it generates heat that could be harmful to the Battery. A fully charged Battery will read 12V-13.2V with a voltmeter.
- Do not continue to crank the Engine when the Battery charge is low.

Charging the Battery

Operate the Engine for at least 45 minutes to maintain proper Battery charge. If the Battery loses its charge, you will need to use a trickle charger (like the DR Battery Charger) to recharge it. The Charger should have an output of 12 volts at no more than 2 amps.

- At 1 amp, the Battery may need charging for as long as 48 hours.
- At 2 amps, the Battery may need charging for as long as 24 hours.

To connect a Battery Charger to your TOW-BEHIND DR FIELD and BRUSH MOWER, follow the steps listed below.

- 1. Detach the two (2) Battery wires going to the Battery on your TOW-BEHIND DR FIELD and BRUSH MOWER.
- 2. Attach the black (-) Battery Charger wire to the Battery negative (-) terminal, and attach the red (+) Battery Charger wire to the Battery positive (+) terminal.
- 3. Plug the Battery Charger into an outlet.

A NOTICE!

WHEN YOU ARE FINISHED CHARGING THE BATTERY, DISCONNECT THE CHARGER FROM THE OUTLET <u>FIRST</u>, THEN DISCONNECT THE BATTERY CHARGER WIRES FROM THE BATTERY. IF YOU LEAVE THE BATTERY CHARGER WIRES CONNECTED TO THE BATTERY, THE BATTERY WILL DISCHARGE ITSELF BACK INTO THE CHARGER.

Disposing of the Battery Responsibly

The Battery is a sealed lead-acid Battery. Recycle or dispose of it in an environmentally sound way.

- Do not dispose of a lead-acid Battery in a fire; the Battery may explode or leak.
- Do not dispose of a lead-acid Battery in your regular, household trash. Law in most areas prohibits incinerating, disposing in a landfill, or mixing a sealed lead-acid Battery with household trash.

Recycling a Used Battery

NOTICE!

PLEASE DISPOSE OF USED BATTERIES RESPONSIBLY, ACCORDING TO YOUR LOCAL HAZARDOUS MATERIALS REGULATIONS. NEVER THROW AWAY USED BATTERIES IN YOUR HOUSEHOLD TRASH.

Please dispose of your used Batteries responsibly by recycling them. Call your local Solid Waste Management District or your local waste handler to locate the collection site nearest you. Some collection sites recycle Batteries year-round; others collect them periodically.

You can also visit the Web site of Earth 911 for more information [www.earth911.org]. Once there, click the Municipal HHW link under Hazardous Household Waste, and enter your zip code. The site lists recycling centers located near you.

For a fee, you can recycle your Batteries with the International Metals Reclamation Company. Visit them at www.inmetco.com and click Services; or contact them at:

INMETCO PO Box 720 245 Portersville Road Ellwood City, PA 16117 (724) 758-2825; fax (724) 758-2845

To learn more about hazardous waste recycling, visit the Web site for Battery Council International [www.batterycouncil.org] or for the Environmental Protection Agency [www.epa.gov].

End of Season and Storage

WARNING!

WHEN PERFORMING ANY ADJUSTMENT OR MAINTENANCE, YOU MUST FIRST SHUT OFF THE ENGINE, WAIT FIVE (5) MINUTES TO ALLOW PARTS TO COOL AND DISCONNECT THE SPARK PLUG WIRE(S), KEEPING IT AWAY FROM THE SPARK PLUG(S).

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

- Change the Engine oil and Oil Filter.
- Remove the Spark Plug(s) and pour about 1 ounce of motor oil into the Cylinder hole. Replace the Plug(s) and crank the Engine over a couple of times using the Electric Starter. This will coat the pistons 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.
- Replace the Fuel Filter.
- If your TOW-BEHIND DR 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 Blades Carrier Housing. Clean grass and debris from the top and underneath the mower Deck with a stiff brush.
- Check the Blades for nicks and wear. Remove the Blades and sharpen them, or have them professionally sharpened if needed.
- Touch-up all rusted or chipped paint surfaces. Sand them lightly before painting.
- Be sure all nuts, bolts, and screws are securely fastened.
- Inspect moving parts and the Blades' Drive Belt for damage and wear; replace if necessary.
- Store the Battery in a dry area that will not freeze. If you will not use the machine over a long period, charge the Battery every four to six weeks. See page 33.
- If possible, store your TOW-BEHIND DR FIELD and BRUSH MOWER inside, but not near an open flame or spark such as found in a water heater.
- After the TOW-BEHIND DR FIELD and BRUSH MOWER has cooled, cover the machine with a suitable protective cover that does not retain moisture. Do not use plastic as this material cannot breathe; it also allows condensation to form, which will cause your machine to rust.

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CHAPTER 6 TROUBLESHOOTING

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 at: **1-800-DR-OWNER (376-9637)**.

Troubleshooting Table

WARNING!

WHEN PERFORMING ANY ADJUSTMENT OR MAINTENANCE, YOU MUST FIRST SHUT OFF THE ENGINE, WAIT FIVE (5) MINUTES TO ALLOW PARTS TO COOL AND DISCONNECT THE SPARK PLUG WIRE(S), KEEPING IT AWAY FROM THE SPARK PLUG(S).

S YMPTOM	POSSIBLE CAUSE
The Engine will not	\Rightarrow Check all the items under the section called Starting on page 23.
start.	\Rightarrow Check that the Blade Control Knob is pushed DOWN to the Disengaged position.
	\Rightarrow Make sure the Spark Plug wire(s) is attached.
(Please refer to the Engine Owner's	 ⇒ If the Engine is cold, make sure the Throttle is in the CHOKE position. See page 23.
Manual for Engine- specific procedures.)	⇒ 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.
	\Rightarrow Check the Throttle adjustment and travel. See page 17.
	\Rightarrow The Spark Plug(s) may be dirty or cracked, change it.
	⇒ If the Spark Plug(s) is oily, leave it out, hold a rag over the Plug hole(s) and crank the Engine over a couple of times using the Electric Starter to blow out any oil in the Cylinder(s), then wipe off the Plug(s) and reinsert it.
	⇒ The Air Filter may be dirty, change it following the procedure in the Engine Owner's Manual.
	⇒ There are two (2) Fuses in the Wiring Harness. Check the Fuses and replace if needed.
	⇒ Check the wire connections—especially the ground connection, the large green wire coming from the Battery, where it connects to the Engine.
	⇒ The Battery may not be charged. Check the voltage yourself or at a service station. If it is low, charge it with a 12-volt, 1 to 2-amp trickle charger. If you do not use your machine for at least 45 minutes at a time, the Battery may need to be periodically charged. See the Battery Care section on page 33.
	⇒ If the Battery is charged and your DR TOW-BEHIND FIELD & BRUSH MOWER still will not start, call 1-800-DR-OWNER (376-9637) for assistance.

WARNING!

WHEN PERFORMING ANY ADJUSTMENT OR MAINTENANCE, YOU MUST FIRST SHUT OFF THE ENGINE, WAIT FIVE (5) MINUTES TO ALLOW PARTS TO COOL AND DISCONNECT THE SPARK PLUG WIRE(S), KEEPING IT AWAY FROM THE SPARK PLUG(S).

Symptom	POSSIBLE CAUSE		
The Engine lacks power or is not	 Check the Throttle Lever travel and adjustment. Make sure the Throttle Lever is in the Run position. 		
running smoothly.	⇒ The Air Filter may be dirty, change it following the procedure in the Engine Owner's Manual.		
(Please refer to the	\Rightarrow The Spark Plug(s) may be dirty or cracked, change it.		
Engine Owner's Manual for Engine- specific procedures.)	⇒ If the Spark Plug(s) is oily, leave it out, hold a rag over the Plug hole(s) and crank the Engine over a couple of times using the Electric Starter to blow out any oil in the Cylinder(s), then wipe off the Plug(s) and reinsert it.		
	⇒ 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.		
	⇒ The Engine may not have the right amount of clean oil. If it is dirty, change it following the procedure on page 28.		
	\Rightarrow If your Engine still lacks power, call 1-800-DR-OWNER (376-9637) for assistance.		
Engine smokes.	\Rightarrow Check the oil level and adjust as needed.		
	⇒ You may be operating the machine on too great an incline. See "Slopes and Uneven Terrain" on page 26.		
	\Rightarrow 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.		
	$\Rightarrow~$ Clean the Cooling Fins and the Carburetor housing if they are dirty.		
	\Rightarrow If the Engine still smokes, call 1-800-DR-OWNER (376-9637) for assistance.		
The Belt frays or rolls over the Pulley.	⇒ There may be a nick in a Pulley groove. Check the Belt for wear and hard spots. File off any nicks on the Pulley.		
	\Rightarrow The Belt may be stretched; replace it. See page 29.		

WARNING!

WHEN PERFORMING ANY ADJUSTMENT OR MAINTENANCE, YOU MUST FIRST SHUT OFF THE ENGINE, WAIT FIVE (5) MINUTES TO ALLOW PARTS TO COOL AND DISCONNECT THE SPARK PLUG WIRE(S), KEEPING IT AWAY FROM THE SPARK PLUG(S).

S YMPTOM	POSSIBLE CAUSE		
Blades vibrate when engaged.	⇒ The Blade Carrier Mounting Bolt may not be tight enough. Tighten the Bolt as tight as possible by hand with at least a 1ft long 13/16" Wrench.		
	⇒ A Swinging Blade may be too loose on the Blade Carrier. Re-tighten the Swinging Blade mounting hardware. See page 31. Be sure to turn OFF the Engine and remove the Spark Plug wire(s) before performing this operation.		
	\Rightarrow Replace a Swinging Blade if it is chipped, bent, or broken.		
	⇒ The Spindle Bearings may be damaged or the Spindle Shaft is bent. Call 1-800-DR-OWNER (376-9637) for assistance.		
The Blades are not cutting or are loose.	⇒ The Blade Carrier Mounting Bolt may not be tight enough. Tighten the Bolt as tight as possible by hand with at least a 1ft long 13/16" Wrench.		
	⇒ A Swinging Blade may be too loose on the Blade Carrier. Re-tighten the Swinging Blade mounting hardware. See page 31. Be sure to turn OFF the Engine and remove the Spark Plug wire(s) before performing this operation.		
	\Rightarrow Sharpen the Swinging Blades; they may be dull or nicked.		
The Blades will not Engage and/or	⇒ Faulty Blade Control Switch. Remove and replace the Switch on the Remote Control Panel.		
Disengage.	\Rightarrow Faulty Electric Clutch. Call 1-800-DR-OWNER (376-9637) for assistance.		
Uneven cut.	⇒ The Step & Mow [™] Height Adjuster and Versa-Hitch [™] position are out of sync. Adjust the cutting height or Versa-Hitch [™] position so that the Out-Rigger [™] To Bar is level with the ground.		
	⇒ Left and Right Step & Mow™ Height Adjusters are not at the same setting.		
Clogging at discharge.	⇒ The Step & Mow [™] Height Adjuster and Versa-Hitch [™] position are out of sync. Adjust the cutting height or Versa-Hitch [™] position so that the Out-Rigger [™] Tow Bar is level with the ground.		
Excessive Engine stalling.	⇒ The brush or grass is too heavy at the current cutting height or at the current Tow Vehicle speed. Raise the cutting height and drive slower when cutting.		

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CHAPTER 7

PARTS LISTS, SCHEMATIC DIAGRAMS AND WARRANTY

Parts List - Deck and Drive Assembly

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

Ref#	Part#	Description	Ref#	Part#	Description
01	221351	Deck	31	112501	Washer, Lock, 5/16", Ext. Tooth
02	221361	Support, Deck	32	221421	Spacer, Clutch
03	222131	Bolt, 5/16"-18 x 3.62", HCS, GR5, ZP	33	191241	Clutch, Electric, 75 ft-lbs
04	112411	Washer, Flat, 5/16", USS, ZP	34	142321	Key, Square, 1/4" x 1.0", Steel
05	110761	Nut, Nylon Lock, 5/16"-18, ZP	35	191301	Washer, Flat, .469" ID x 1.62" OD x .25"
06	222421	Bolt, 5/16"-18 x 4.75", HCS, GR5, ZP	36	222521	Washer, Lock, 7/16", Heavy Duty
07	221381	Mount, Tow Bar, Deck	37	222141	Bolt, 7/16"-20 x 2.25", Locking, HCS,
08	222461	Bolt, 3/8"-16 x .75", HCS, GR8, ZP, YZP	~~		GR8, YZP
09	222471	Bolt, 3/8"-16 x 2.25", HCS, GR8, ZP, YZP	38	221411	Anti-Rotation Bracket
10	222531	Washer, Lock, 3/8", Split, GR8, YZP	39	123211	Bolt, 5/16"-18 x .75", HCS, GR5, ZP
11	221291	Spindle, Housing	40	221331	Belt, BP51, 5/8" x 53.8"
12	228881	Bolt, 3/8"-16 x 1", HCS, GR8, ZP, YZP	41	222201	Idler Arm
13	110751	Nut, Nylon Lock, 3/8"-16, ZP	42	222211	Bushing, .390" ID x .625" OD x .78"
14	221301	Shaft, Spindle, w/Key & Bearing	43	119851	Bolt, 3/8"-16 x 1.5", HCS, GR5, ZP
15	221311	Bearing, Ball, 30mm Bore	44 45	112391	Washer, Flat, 3/8", USS, ZP
16	221321	Pulley, 12.00" EOD, 1.00" Bore	45 46	151271 164841	Pulley, Flat Idler, 4", 3/8" Bore Bolt, 3/8"-16 x 2.5", HCS, GR5
17	157451	Washer, Flat, 5/8", USS, ZP	40 47	150941	Spring, Ext., .75" OD x 5.0" L
18	221261	Nut, Nylon Lock, 5/8"-18, Low Profile, ZP	47	179261	Bolt, 3/8"-16 x 3.5", HCS, GR5, ZP, Full
19	212401	Spindle Hub, 30mm Bore	40	179201	Thread
20	221221	Blade Carrier	49	222251	Wire Harness, Solenoid, B&S
21	101771	Washer, .64" ID x 2.25" OD x 3/8", ZP		222491	Wire Harness, Solenoid, Kawasaki
22	212581	Washer, Lock, 5/8", Split, Heavy Duty, YZP	50	152501	Bolt, 1/4"-20 x .75", HCS, w/Flange
23	212411	Bolt, 5/8"-18 x 1.75", HCS, GR8, ZP, YZP	51	101811	Washer, Lock, 1/4", Split, ZP
24	221211	Blade, Swinging, 16.5" x 2.5"	52	112381	Washer, Flat, 1/4", USS, ZP
25	221251	Nut, Hex, 5/8"-18, GR8, ZP, YZP	53	222551	Strain Relief, 1/2" Cord
26	221371	Mount, Engine	54	104831	Battery, 12V, 17Ah
27	222181	Engine, 13HP, B&S, E/S, w/Fuel Pump	55	124511	Clamp, Battery, 7.12" X 5.5"
	213971	Engine, 17HP, Kawasaki, E/S	56	111481	Bolt, 1/4"-20 x 1.75", HCS, GR5, ZP
28	228851	Bolt, 5/16"-18 x 1.5", HCS, GR8, ZP	57	110731	Nut, Nylon Lock, 1/4"-20, ZP
29	150451	Bolt, 5/16"-18 x 1.75", HCS	58	150141	Wire, Ground, 16"
30	110691	Nut, Hex, 5/16"-18, ZP	59	222361	Mount, Fuel Tank, 2.5 Gal.
			60	222381	Fuel Tank Assy, 2.5 Gal., w/Elbow

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Ref#	Part#	Description
61	222371	Strap, 2.5 Gal. Fuel Tank
62	110701	Nut, Hex, 1/4"-20, ZP
63	222441	Grommet, 1/2" ID x .12" Mount, Rubber
64	112431	Washer, Lock, 5/16", Split, ZP
65	222281	Cover, Belt
66	221451	Cover, Clutch Access

Items Not Illustrated

- 222391 Valve, Fuel Shutoff
- 211661 Hose, Fuel, CA Certified
- 100661 Clamp, Fuel Line
- 140021 Tubing, Oil Drain
- 222451 Valve, 3/8" NPT, Oil Drain (B&S only)
- 222681 Spring, E, .31" OD x 1.25" (B&S only)
- 228841 Spring, E, .31" OD x 2.00" (Kawasaki only)
- 213991 Guard, Engine Front (Kawasaki only)
- 180311 Bolt, Button, 1/4"-20 x 5/8" (Kawasaki Guard only)
- 112371 Washer, Flat, #10, USS (Kawasaki Guard only)
- 222541 Screw, 6MM x 12 MM, SHCS, (Kawasaki Guard only)
- 142201 Fuse, 20 Amp, Type AGC
- 229001 Fuse, 7 Amp, Type AGC

Safety and Information Labels

- 222221 Label, Control Panel
- 222671 Label, DR TOW-BEHIND FIELD & BRUSH MOWER
- 180451 Label, DR, 4" Round
- 124371 Label, American Flag
- 127811 Label, Warning, Add Oil
- 136491 Label, Danger
- 136831 Label, Caution Hot Surface
- 137581 Label, Check Oil
- 211671 Label, Fuel Line, CA Certified
- 222651 Label, Serial Number

Schematic - Deck and Drive Assembly



Parts List - Wheels and Push Bar Assembly

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

Ref#	Part#	Description
01	222341	Support, Axle Pivot, LH
02	222351	Support, Axle Pivot, RH
03	123211	Bolt, 5/16"-18 x .75", HCS, GR5, ZP
04	110761	Nut, Nylon Lock, 5/16"-18, ZP
05	221431	Axle, Adjustable, LH
06	221441	Axle, Adjustable, RH
07	221501	Bushing, 1.00" ID x 1.25" OD x 1.00"
08	228861	Bolt, 3/8"-16 x 1.25", HCS, GR8, ZP
09	222531	Washer, Lock, 3/8", Split, GR8, ZP
10	228871	Washer, .385" ID x 1.50" OD x .25", ZP
11	221591	Pin Assy, 1/2", w/Spring
12	222571	Spacer, 2.5" x 1.25" x .75", Nylon
13	160861	Bolt, 1/4"-20 x 1.25", HCS, ZP
14	110731	Nut, Nylon Lock, 1/4"-20, ZP
15	222321	Wheel, 18" x 6.5-8, 1.0" Bore x 3.0" Long
16	221511	Bushing, .75" ID x 1.00" OD x 1.25", Flange
17	222401	Deflector, Wheel, LH
18	222411	Deflector, Wheel, RH
19	222461	Bolt, 3/8"-16 x .75", HCS, GR8, ZP
20	221341	Push Bar
21	150451	Bolt, 5/16"-18 x 1.75", HCS, ZP
22	222271	Guard, Deck Front
23	152501	Bolt, 1/4"-20 x .75", HCS, w/Flange
24	112381	Washer, Flat, 1/4", USS, ZP
25	101811	Washer, Lock, 1/4", Split, ZP

Schematic - Wheels and Push Bar Assembly



Parts List - Tow Bar and Remote Control Panel Assembly

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

Ref#	Part#	Description	Ref# Part#	Description	
01	221471	Tow Bar			
02 221561		0.	Items Not Illustrated		
		Teflon	191651	Strap, Hook and Loop	
03	221491	Washer, 1.00" ID x 1.62" OD, w/Pin Hole	188371	Plate, Hitch Tongue Extender	
04	150461	Pin, Detent, 1/4" x 2", ZP	101791	Washer, Flat, 1/2", USS, ZP	
05	221531	Pin, Pivot, Tow Bar		(for Extender Plate)	
06	221541	Pin, Spring, 1/8" x 1", ZP	110721	Nut, Nylon Lock, 1/2"-13, ZP	
07	221551	Knob, 3/8"-16, 2.5" Long x 7/8" Wide T		(for Extender Plate)	
08	126831	Nut, Hex, 3/8"-16, ZP	111441	Bolt, 1/2"-13 x 2", HCS, ZP (for Extender Plate)	
09	213481	Spring, C, .660" OD x .067" Wire x 2.0"		(IOI Extender Flate)	
10	109621	Collar, .50" ID w/Set Screw			
11	221461	Pivot, Tow Bar			
12	221571	Bushing, .386" ID x .623" OD x 1.915"			
13	123371	Bolt, 3/8"-16 x 2.75", HCS, GR5, ZP			
14	112391	Washer, Flat, 3/8", USS, ZP			
15	110751	Nut, Nylon Lock, 3/8"-16, ZP			
16	211551	Pin, Quick Release, 3/8" x 2.5"			
17	221581	Pin, Clevis, 1/2" x 9.25"			
18	160031	Pin, Hitch Clip, 1/2" to 9/16"			
19	213251	Control Panel			
20	222231	Switch, Snap-In, Electric Start			
21	157201	Key, Ignition Switch			
22	191231	Switch, Push/Pull, TPDT			
23	222241	Cable & Lever, Throttle, 154" (B&S)			
	222481	Cable & Lever, Throttle, 170" (Kawasaki)			
24	222561	Knob, 3/8"-24, Mount, 1.12" OD			
25	114781	Screw, 10-24 x 5/8", Phil Pan, ZP			
26	118731	Nut, Nylon Lock, 10-24, ZP			
27	222261	Wire Harness, Control			
28	222551	Strain Relief, 1/2" Cord			





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Notes:

Notes:

CALL TOLL FREE **1-800-DR-OWNER** 49

Notes:

TOW-BEHIND **DR**[®] FIELD and BRUSH MOWER



2-Year Limited Warranty

Terms and Conditions

The TOW-BEHIND **DR**[®] 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. The Battery is warranted for one (1) year.

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 TOW-BEHIND **DR**[®] 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 TOW-BEHIND **DR**[®] 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 Debris Guard, Drive Belts, Blades, Tires, Filters, and Spark Plugs. 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 TOW-BEHIND **DR**[®] 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 TOW-BEHIND DR FIELD and BRUSH MOWER

To help maintain your TOW-BEHIND DR 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 HD (High Detergent) motor oil. See page 15.
- [] GAS: Fill the Fuel 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.
- [] BLADES: Check the Blades for tightness, nicks and wear. Remove any wrapped weeds and grass from the Blades' Spindle to prevent buildup.
- [] TIRES: Check the Tires for wear and proper inflation.
- [] FRAME: Check all welds to be sure that the Frame is intact and secure.
- [] GENERAL CONDITION: Check the general condition of the machine, e.g.; nuts, bolts, welds etc.
- [] REMOTE CONTROL PANEL: Check that the Remote Control Panel is secured to the Tow Vehicle and within reach of the seated driver.
- [] FRONT GUARD: Check the Front Guard for wear and damage. If worn, or damaged, replace it before using the machine.



DR[®] Power Equipment, A division of Country Home Products[®]

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