

DR[®] GENERATOR ATTACHMENT for the DR[®] FIELD and BRUSH MOWER

SAFETY & OPERATING INSTRUCTIONS



⚠ WARNING!

**READ AND UNDERSTAND THIS MANUAL AND ALL INSTRUCTIONS
BEFORE OPERATING THIS GENERATOR.**

THANK YOU!

And congratulations on your purchase of a new DR GENERATOR ATTACHMENT!

We have done our utmost to ensure that your DR GENERATOR ATTACHMENT 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 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.

And, please tell your friends about your new DR GENERATOR ATTACHMENT! 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®
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INTRODUCING THE DR GENERATOR ATTACHMENT

This manual will help you set up and safely operate your new DR GENERATOR ATTACHMENT. 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 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

! DANGER!

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

! 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 GENERATOR ATTACHMENT.

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

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

DANGER!

THIS GENERATOR IS CAPABLE OF CAUSING AN ELECTRIC SHOCK. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS WILL RESULT IN DEATH OR SERIOUS INJURY.

WARNING!

READ THIS SAFETY AND OPERATING MANUAL BEFORE YOU USE THE DR GENERATOR ATTACHMENT. BECOME FAMILIAR WITH THE SERVICE RECOMMENDATIONS TO ENSURE THE BEST PERFORMANCE FROM YOUR GENERATOR. ALSO, REVIEW THE *SAFETY AND OPERATING INSTRUCTIONS* FOR YOUR DR *ALL-TERRAIN* FIELD AND BRUSH MOWER BEFORE THE SET-UP AND OPERATION OF THE GENERATOR.

Labels

Your DR GENERATOR ATTACHMENT 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 GENERATOR ATTACHMENT as you assemble and *before* you operate the unit. Replace damaged or missing safety and information labels immediately.



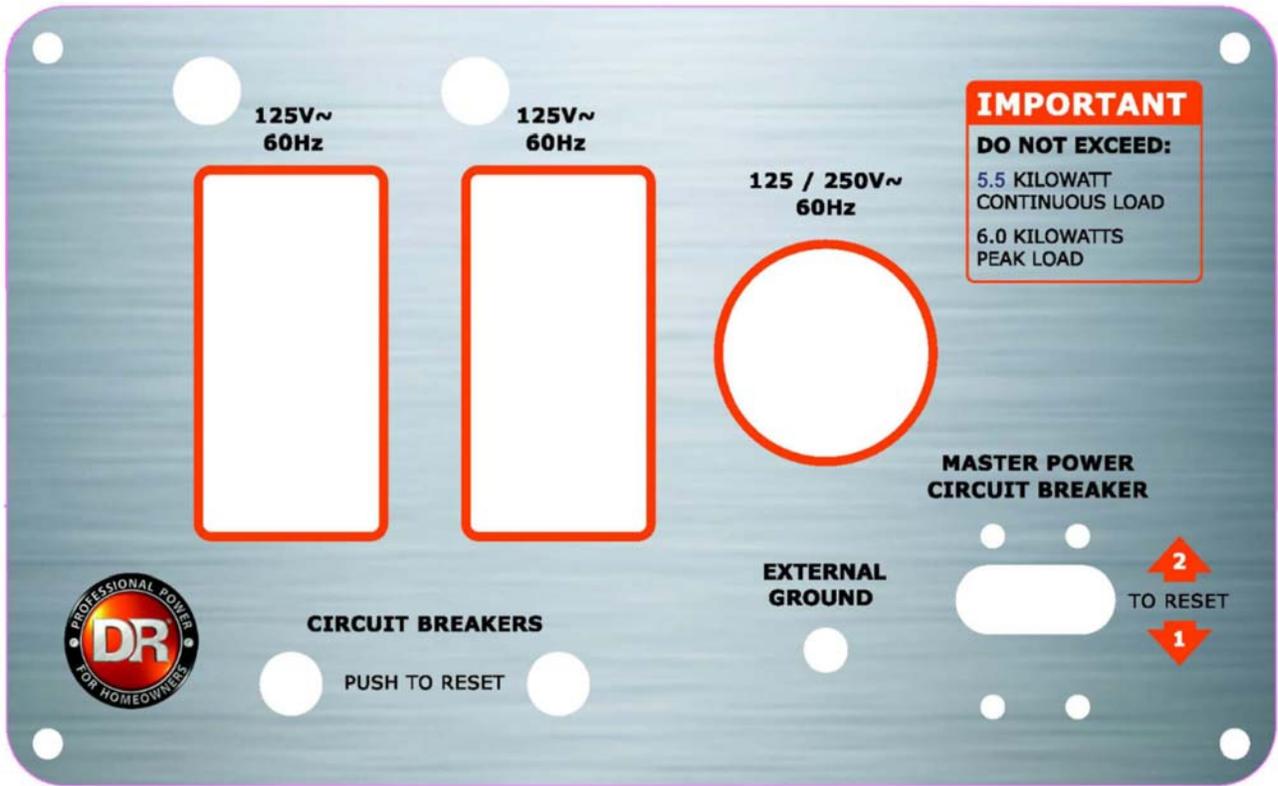
The image shows a collection of safety labels for a generator attachment, presented on a red background. At the top, there are five square icons in a row, each with a white background and a black border. Below each icon is a short instruction. At the bottom, there is a larger rectangular label with a white background and a black border, containing a warning icon and text. At the very bottom, there is a line of small text providing contact information for Country Home Products.

-  Disconnect spark plug wire on mower before installing or removing generator.
-  Never use your generator indoors or in enclosed spaces.
-  Never try to power house wiring by plugging into a wall outlet.
-  Protect your generator from rain and wet conditions.
-  Do not use damaged power cords or equipment with your generator.

 **WARNING:** DO NOT REMOVE COVER. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

COUNTRY HOME PRODUCTS®, 127 Meigs Road, Vergennes, VT 05491
Home of DR® and NEUTON® Power Equipment

This label reminds you about the importance of reading and understanding the Safety and Operating Instructions and notifies you of key hazards. (#192421)



This panel label identifies the Outlet Voltages, Circuit Breakers, External Ground connection, and the Max Load for your DR GENERATOR ATTACHMENT. #191971



#192391

Operating the Generator Safely

DANGER!

THIS GENERATOR IS CAPABLE OF CAUSING AN ELECTRIC SHOCK. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS WILL RESULT IN DEATH OR SERIOUS INJURY.

- NEVER USE THE GENERATOR WHEN YOUR HANDS ARE WET. THE GENERATOR PRODUCES ENOUGH ELECTRICAL POWER TO CAUSE A SERIOUS SHOCK OR ELECTROCUTION.
- ALWAYS KEEP THE GENERATOR DRY. PROTECT THE GENERATOR IN WET CONDITIONS SUCH AS RAIN OR SNOW, OR NEAR A POOL OR SPRINKLER SYSTEM.
- NEVER OPERATE THE GENERATOR IN AN ENCLOSED AREA, OR EVEN PARTIALLY ENCLOSED, AS YOU COULD BREATHE IN DANGEROUS CARBON MONOXIDE GAS FROM THE ATM ENGINE EXHAUST. ALWAYS PROVIDE ADEQUATE VENTILATION WHEN OPERATING THE GENERATOR.
- ALWAYS MAKE CERTAIN THE GENERATOR IS PROPERLY GROUNDED PRIOR TO USE. SEE PAGE 19.
- NEVER CONNECT THE GENERATOR TO A BUILDING'S ELECTRICAL SYSTEM. TO DO THIS; AN ISOLATION SWITCH (TRANSFORMER) MUST BE INSTALLED BY A LICENSED ELECTRICIAN.

WARNING!

THIS IS A HIGH-POWERED GENERATOR, WITH MOVING PARTS OPERATING AT HIGH SPEEDS. THE MACHINE MUST BE OPERATED SAFELY TO PREVENT OR MINIMIZE THE RISK OF SEVERE INJURY. UNSAFE OPERATION CAN CREATE A NUMBER OF HAZARDS FOR YOU. ALWAYS TAKE THE FOLLOWING PRECAUTIONS WHEN OPERATING THIS GENERATOR:

- NEVER ALLOW PEOPLE WHO ARE UNFAMILIAR WITH THESE INSTRUCTIONS TO USE THE GENERATOR.
- NEVER ALLOW CHILDREN TO OPERATE THE GENERATOR.
- KEEP YOUR HANDS AND FEET AWAY FROM THE BELTS, CHAINS, PULLEYS, AND CONCEALED AREAS WHILE THE ENGINE IS RUNNING. NEVER REACH UNDER THE GENERATOR WHEN THE ENGINE IS RUNNING.
- NEVER OPERATE THE GENERATOR IN AN AREA OF NATURAL GAS, FLAMMABLE LIQUIDS, VAPORS OR EXPLOSIVE DUST.
- ALWAYS TURN OFF THE ATM ENGINE, REMOVE THE SPARK PLUG WIRE(S) AND DISENGAGE THE GENERATOR BELT DRIVE BEFORE ADJUSTING OR SERVICING THE GENERATOR.
- NEVER OPEN THE OUTLET BOX OR GENERATOR COVER. DO NOT ATTEMPT ANY ELECTRICAL REPAIRS YOURSELF. IF IN DOUBT, CONSULT A QUALIFIED ELECTRICIAN OR CONTACT COUNTRY HOME PRODUCTS' TOLL-FREE SUPPORT AT 1-800-DR-OWNER (376-9637) FOR HELP OR INFORMATION.
- KNOW HOW TO STOP THE GENERATOR QUICKLY IN CASE OF EMERGENCY (STEP 9 ON PAGE 22).

! WARNING!

- NEVER MOVE OR REPOSITION THE GENERATOR WITH ITS DRIVE BELT ENGAGED AND OPERATING.
 - ALWAYS CHECK POWER CORDS AND EXTENSION CORDS FOR DAMAGE PRIOR TO EVERY USE AND KEEP THEM AWAY FROM EXCESSIVE HEAT, OIL AND SHARP OBJECTS WHILE OPERATING THE GENERATOR.
 - NEVER OPERATE THE GENERATOR WHEN UNDER THE INFLUENCE OF ALCOHOL OR MEDICATION.
 - ALWAYS SET THE PARKING BRAKE AND BE SURE THE GENERATOR (BLADE) AND WHEEL CONTROLS ARE DISENGAGED BEFORE ATTEMPTING TO START THE ENGINE ON YOUR DR *ALL-TERRAIN* FIELD AND BRUSH MOWER.
 - NEVER, UNDER ANY CONDITIONS, REMOVE, BEND, CUT, FIT, WELD, OR OTHERWISE ALTER STANDARD PARTS ON THE DR GENERATOR ATTACHMENT. MODIFICATIONS TO YOUR GENERATOR COULD CAUSE AN INJURY AND WILL VOID YOUR WARRANTY.
 - UNDERSTAND THE OUTPUT RECEPTACLES AND CONNECTIONS.
 - ALWAYS MAKE CERTAIN NUTS AND BOLTS ARE TIGHT TO ASSURE A SAFE WORKING CONDITION.
-

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. DO NOT OVERLOOK THE HAZARDS OF GASOLINE. ALWAYS FOLLOW THESE PRECAUTIONS:

- NEVER RUN THE ATM ENGINE IN AN ENCLOSED AREA OR WITHOUT PROPER VENTILATION.
 - STORE ALL FUEL IN CONTAINERS SPECIFICALLY DESIGNED FOR THIS PURPOSE.
 - FILL THE GASOLINE TANK OUTDOORS WITH THE ENGINE OFF. DON'T HANDLE GASOLINE IF YOU OR ANYONE NEARBY IS SMOKING, OR IF YOU'RE NEAR ANYTHING THAT COULD CAUSE IT TO IGNITE OR EXPLODE.
 - IF YOU SPILL GASOLINE, DO NOT ATTEMPT TO START THE ENGINE. MOVE THE MACHINE AWAY FROM THE AREA OF THE SPILL AND AVOID CREATING ANY SOURCE OF IGNITION UNTIL THE GAS VAPORS HAVE DISSIPATED. WIPE UP ANY SPILLED FUEL TO PREVENT A FIRE HAZARD AND PROPERLY DISPOSE OF THE WASTE.
 - ALLOW THE ENGINE TO COOL COMPLETELY BEFORE STORING IN ANY ENCLOSURE. NEVER STORE THE MACHINE NEAR AN OPEN FLAME OR SPARK WITH GAS IN THE TANK.
 - NEVER CHANGE THE ENGINE GOVERNOR SETTINGS OR MODIFY THE ENGINE SPEED.
-

! CAUTION!

THE GENERATOR 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 GENERATOR:

- USE EARMUFFS OR EARPLUGS RATED FOR AT LEAST 20 DBA TO PROTECT YOUR HEARING WHEN YOU ARE WORKING CLOSE TO THE GENERATOR.
 - ALWAYS GRASP A POWER CORD PLUG WHEN UNPLUGGING THE CORD FROM THE GENERATOR OUTLET BOX; DO NOT PULL THE PLUG OUT BY THE CORD.
 - 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 GENERATOR 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® FIELD and BRUSH MOWERS shipped to California and Washington State are provided with spark arresters. Failure of the owner or 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.

SETTING UP YOUR DR GENERATOR ATTACHMENT

This chapter covers the unpacking, attaching the Skids and the procedures necessary for connecting the DR GENERATOR ATTACHMENT to your DR *ALL-TERRAIN* Field and Brush Mower. **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).**

Unpacking and Attaching the Skids

NOTE: *We recommend two people for unpacking, as the unit weighs 90 pounds.*

Parts Supplied:

- Generator Attachment
- Interface Relay Harness
- Drive Belt (same as Brush Deck)
- (2) Skids
- Crosspiece
- 5/16-18 x 2-1/2" Bolt
- 1-1/2" Spacer
- 5/16" Lock Washer
- (10) 5/16" Bolts, Washers & Lock Nuts
- #10 Screw x 5/8" & #10 Lock Nut
- Cable Ties

Tools Needed:

- (2) 1/2" Open End Wrench
- Phillips Screwdriver or optional wrench

1. Open the shipping container and remove the top packing piece and place it near the shipping container (**Figure 1** on page 10).
2. Remove the Crosspiece and the Parts Bag containing the Interface Relay Harness, Cable Ties, and Hardware from the shipping container.
3. Carefully lift the DR GENERATOR ATTACHMENT out of the shipping container and rest it upside down on the packing material from Step 1 (**Figure 1** on page 10).

NOTE: *One person should steady the Generator during assembly.*

4. Remove the two (2) Skids from the bottom of the shipping container (**Figure 1** on page 10).
5. Assemble the Belt Guide (**Figure 2** on page 10) and install it on the Frame as shown. Tighten securely.
6. Route the Generator Wire Harness through the Frame and out the rear of the Generator as shown in **Figures 2** and **3** on page 10.
7. Locate the Holes in the Frame Sides as shown in (**Figure 3** on page 10). There are two (2) Holes at the front of the Frame and one (1) at the rear on either side. Orient the Skids to match the Hole patterns.
8. Place the Skids in the U-section Channel of the Frame and bolt them in place with six (6) Bolts, Washers, and Lock Nuts (**Figure 3** on page 10). Do not tighten completely at this time.

NOTE: *The Bolt heads and Washers are on the outside and Lock Nuts are on the inside (**Figure 3** on page 10).*

9. Bolt the Crosspiece to the front of the Skids (**Figure 4**) using four (4) Bolts, Washers, and Lock Nuts. Now tighten all of the hardware.

10. Tip the unit up right onto the Skids. The assembly is now complete.

NOTE: Do not discard your packaging material until you are fully satisfied with your new DR GENERATOR ATTACHMENT.

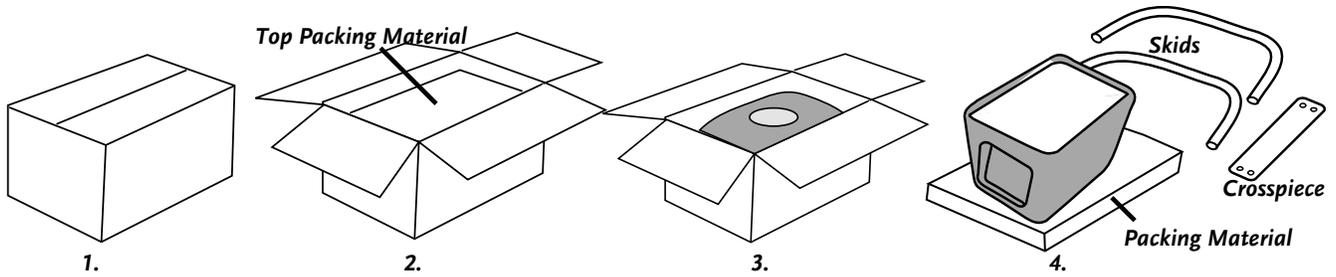


Figure 1

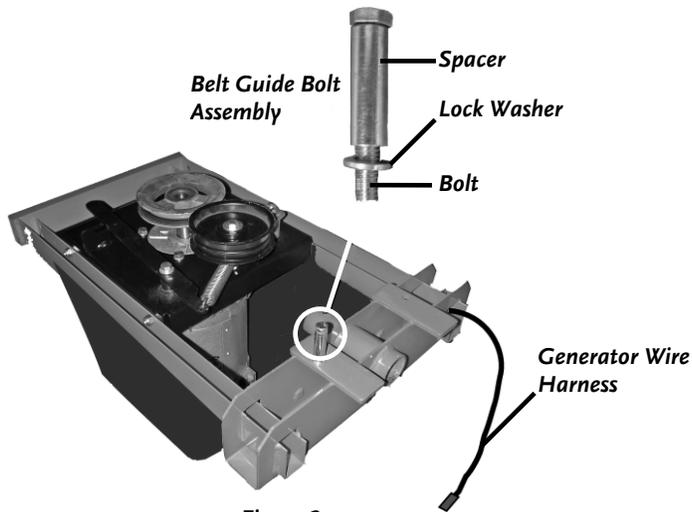


Figure 2

Skid Inside Frame U-Channel

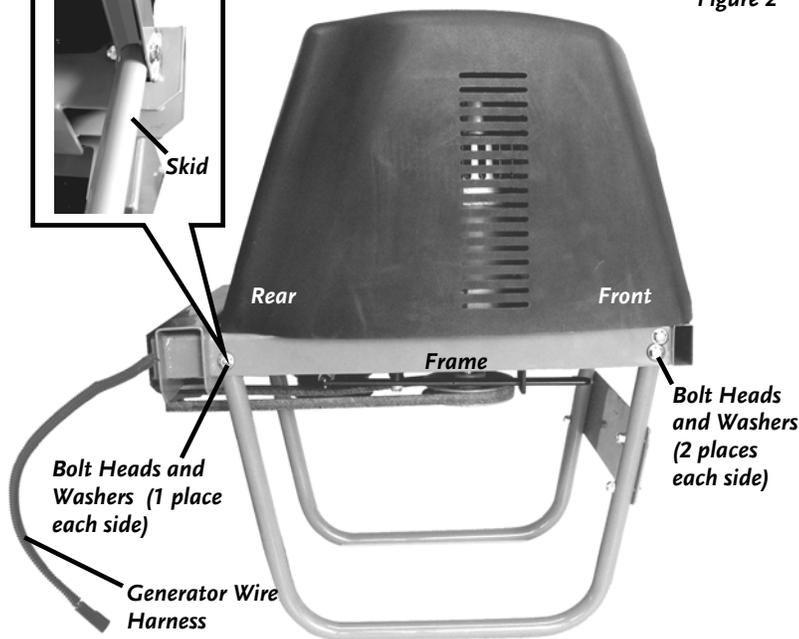
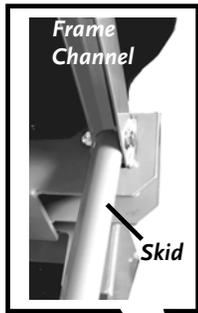


Figure 3



Figure 4

Removing the ATM Brush Deck

! WARNING!

ALWAYS STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE(S) BEFORE PERFORMING ANY MAINTENANCE OR SERVICING PROCEDURE ON YOUR MACHINE.

1. Remove the black belt guard by unscrewing the black knob, lifting the cover and pulling up and back to remove it.
2. Release the Belt Tension Lever (*Figure 5*).

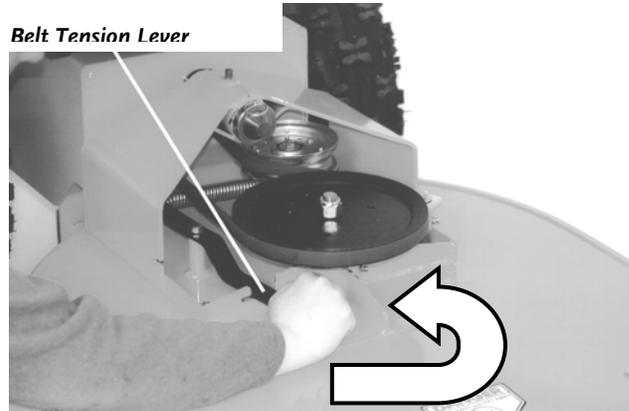


Figure 5

3. Remove the Belt from the Deck Pulley and the ATM Engine Pulley (*Figure 6*).

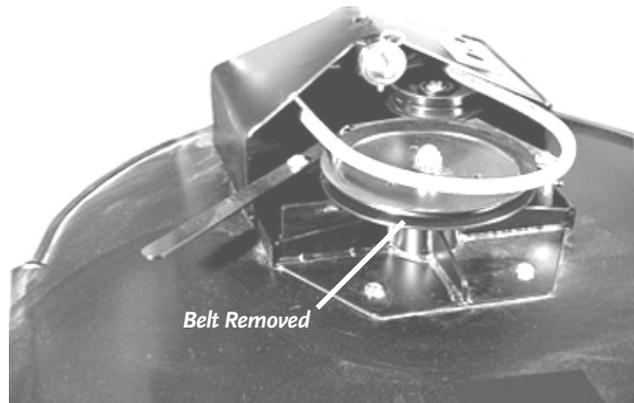


Figure 6

4. Remove the pin and collar (*Figure 7*), and then pull the power unit away from the deck.

! CAUTION!

DO NOT PULL THE DECK AWAY FROM THE POWER UNIT UNLESS YOU HAVE SOMEONE HOLDING THE HANDLEBARS TO PREVENT IT FROM FALLING BACKWARD.



Figure 7

Installing the DR GENERATOR ATTACHMENT

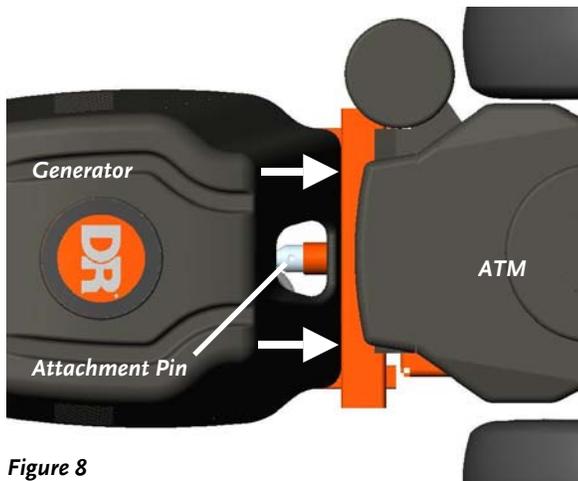


Figure 8

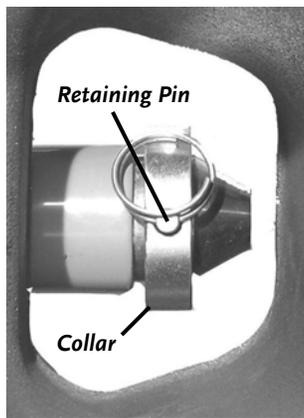


Figure 9

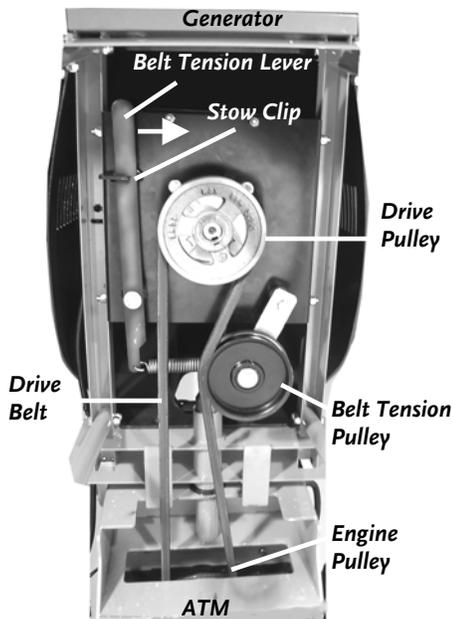


Figure 10

1. With the help of another person to steady the ATM power unit; line up the GENERATOR ATTACHMENT with the ATM Attachment Pin and slide the Generator onto the Pin (**Figure 8**).
2. Reattach the Collar and Retaining Pin to secure the Generator (**Figure 9**).
3. Pull and release the Belt Tension Lever from the Stow Clip beneath the Generator (**Figure 10**).
4. Install the supplied Drive Belt on the Engine Pulley below the ATM (**Figure 10**).
5. Route the Drive Belt around the Generator Belt Tension Pulley and the Generator Drive Pulley (**Figure 9**).
6. Push the Belt Tension Lever back into its locked position on the Generator (**Figure 11**).

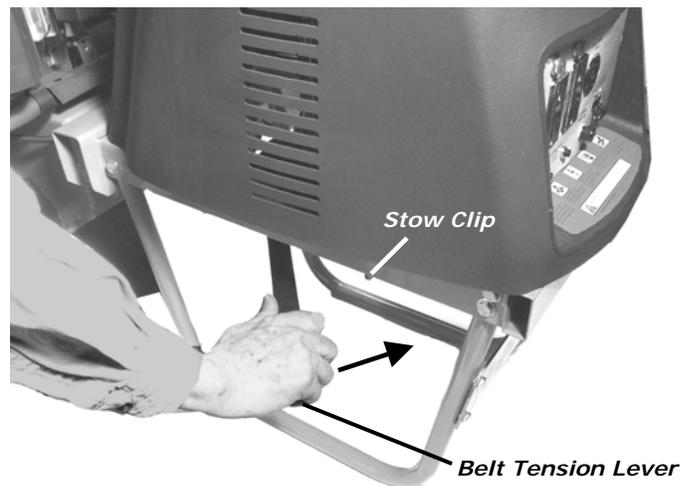


Figure 11

Installing the Interface Relay Harness

NOTE: See page 17 for the AT-3 Lock-In/Out model ATM.

Tools Needed:

- 3/8" Open End Wrench
- Phillips Screw Driver
- Electric Drill
- 3/16" Drill Bit
- Tape Measure

1. Examine the Wire Harness and identify the connections as shown in **Figure 12**.
2. Locate the Blade Engagement connection beneath the Handlebar Control Panel (**Figure 13**) and remove the existing connector from the Blade Engagement Switch.
3. Insert Connector **B** into the Blade Engagement Switch (**Figure 14**).
4. Plug the Original Wire Harness Connector into the **A** Connector of the new harness.
5. Locate and drill a 3/16" hole in the Right Side Gas Tank Support, if not already there (**Figure 15**).

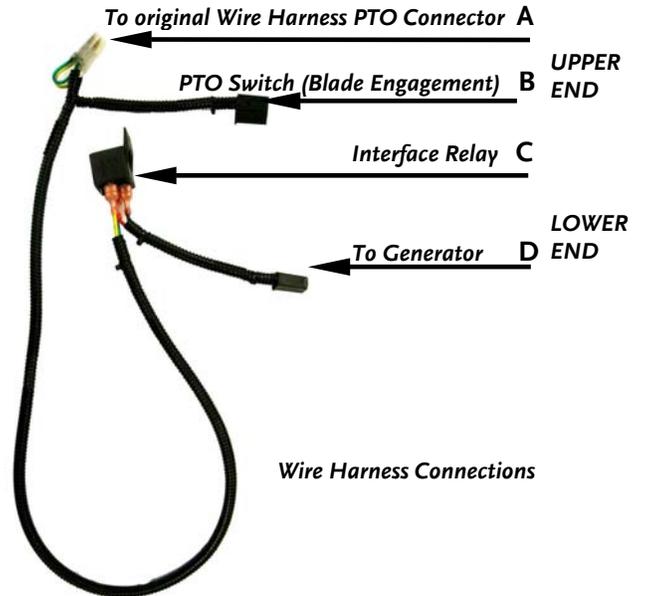


Figure 12

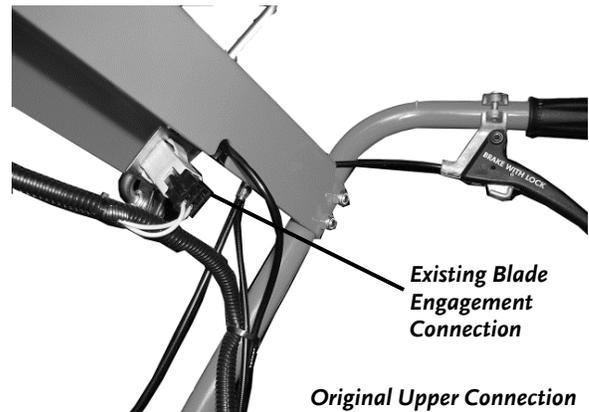


Figure 13

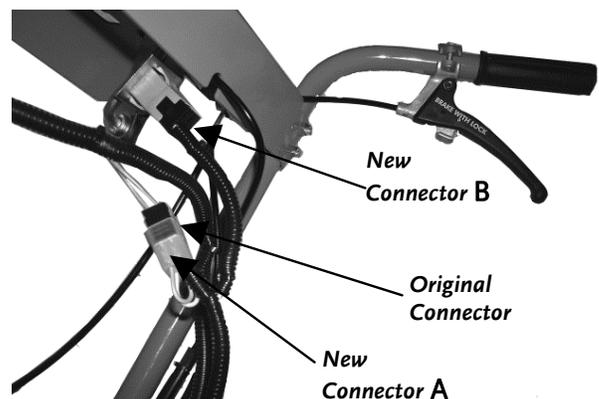


Figure 14

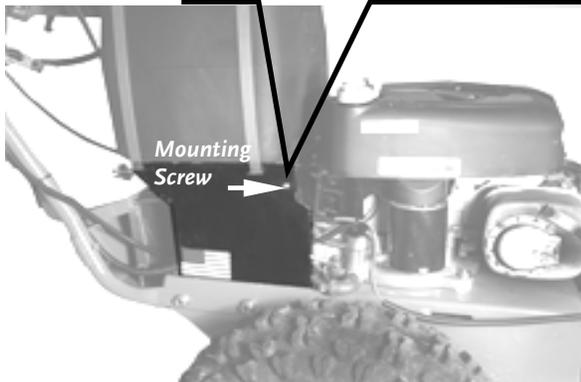
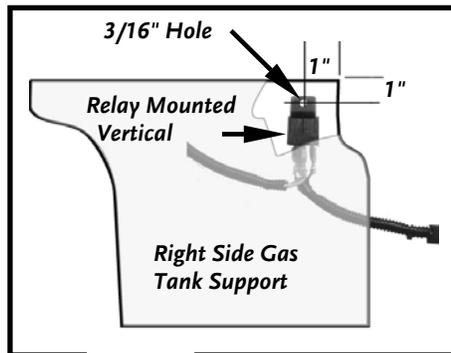


Figure 15

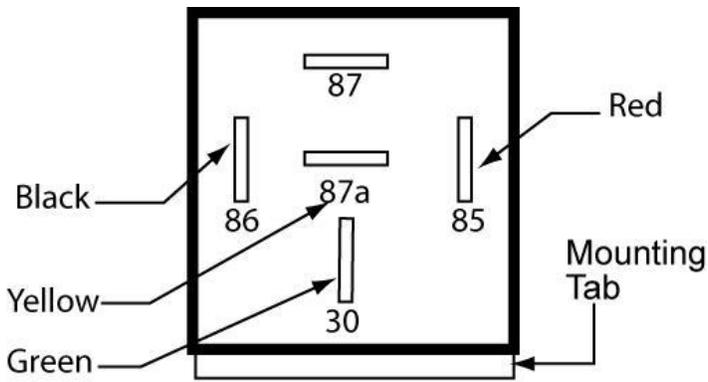


Figure 16

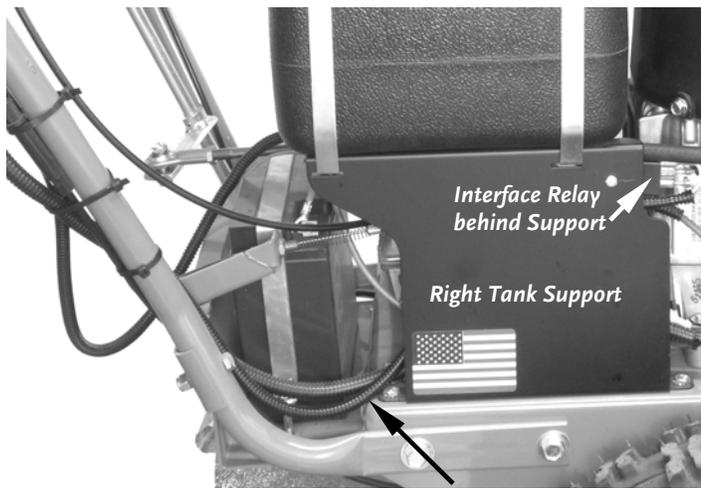


Figure 17

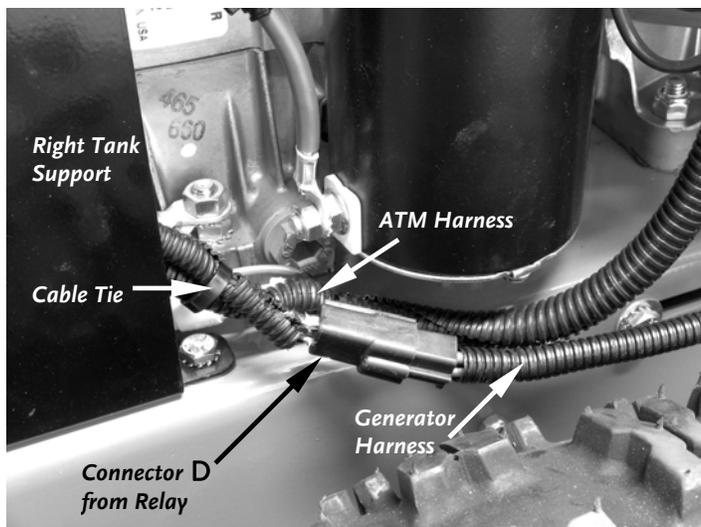


Figure 18

6. Refer to **Figure 16** for the proper relay color code connections in the event your relay should become disconnected.
7. Run the lower end of the new Interface Relay Harness, with the Relay attached, down along the handlebar and in back of the Right Tank Support (**Figure 17**).
8. Mount the Interface Relay vertically against the inside of the Tank Support (**Figure 15** on page 13) using the Screw and Locking Nut supplied.
9. Plug the Connector **D** (**Figure 12** on page 13), from the Relay, into the Generator Harness (**Figure 18**).
10. Secure the new wire harness to the existing ATM harness as shown using a Cable Tie provided (**Figure 18**).
11. Secure the upper portion of the Wire Harness to the handlebar frame using the plastic Cable Ties provided (**Figure 19**).
12. Cut off excess Cable Ties. Your installation is now complete.

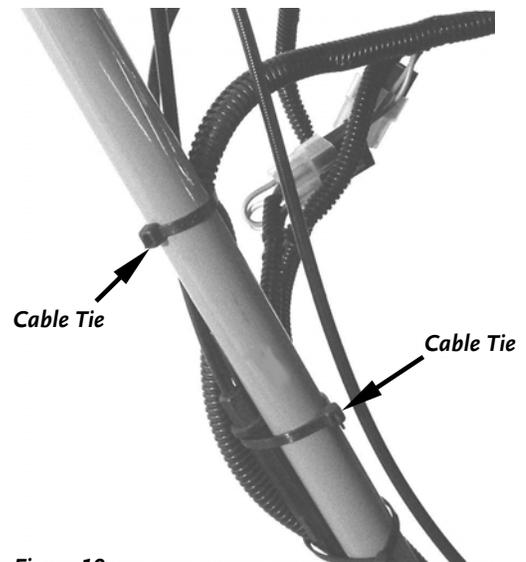


Figure 19

Installing the Maintenance Meter (if you don't have one)

Tools and Parts Needed:

- Screwdriver
- Cutting Pliers
- Meter Assembly #184271 Includes:
 - Meter
 - 66" Wire
 - Control Panel Plug w/cutout
 - Mounting Bracket
 - Cable Ties

NOTE: Do not place the Mounting Bracket on the Meter before the Meter is inserted into the Control Panel.

1. Gently pry the black factory Panel Insert from the Control Panel (**Figure 20**).
2. Insert the Control Panel Plug from the new Meter Kit into the open hole in the Control Panel (**Figure 21**).
3. Insert the Meter firmly into the Panel Plug. The Meter Flange should be flat against the face of the Panel Plug.
4. Thread the Sensor Wire Adapter through the Meter Mounting Bracket as shown (**Figure 22**) leaving sufficient wire length to form a loop when the connector is placed on the Meter.
5. Place the Mounting Bracket with Sensor wire attached, on the Meter from the backside of the Panel. Press the Mounting Bracket as far as possible toward the Control Panel while holding the Meter in place from the front. The Bracket should click into place.
6. Slide the Connector onto the male fitting on the back of the Meter. When finished, the assembly should appear as in **Figure 23**.

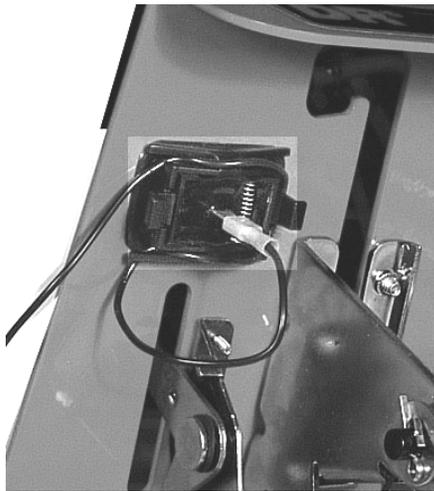


Figure 23

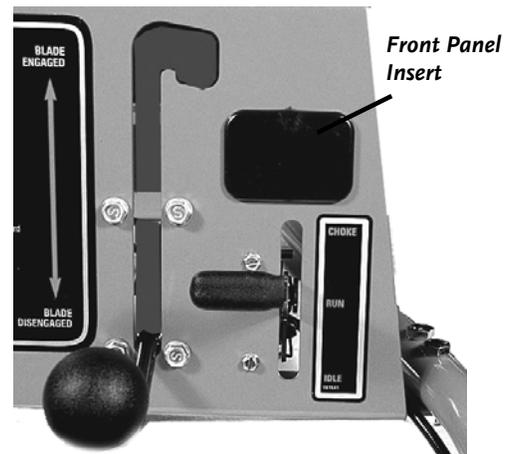


Figure 29

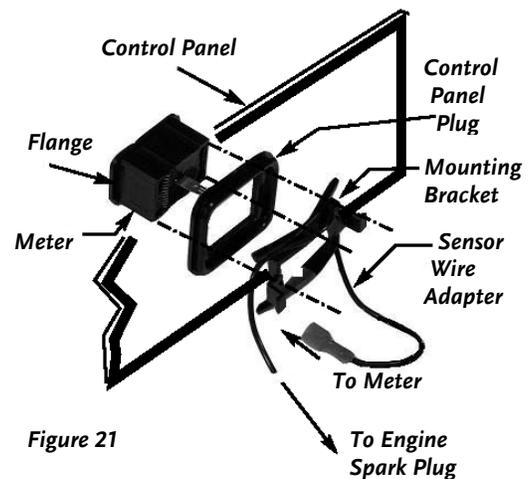


Figure 21

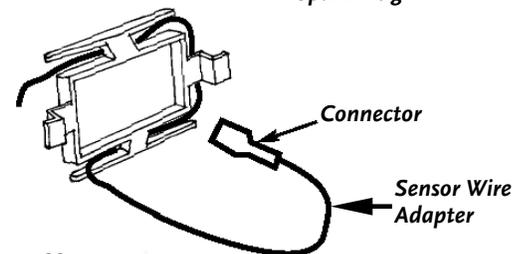


Figure 22

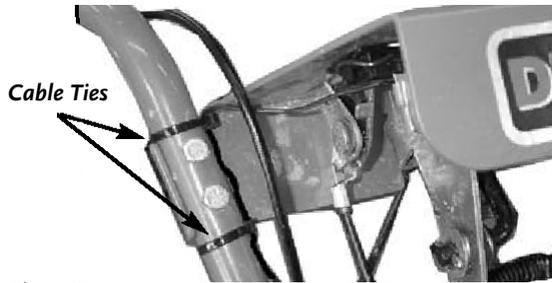


Figure 24

7. Run the Sensor Wire from the Meter to the Handlebar (**Figure 24**) and secure in two (2) places as shown with Cable Ties. **Do not over tighten the Cable Ties.**

! NOTICE!

DO NOT BIND THE WIRE TOO TIGHTLY WITH THE CABLE TIES AND AVOID PLACING THE WIRE ON OR NEAR HOT SURFACES.

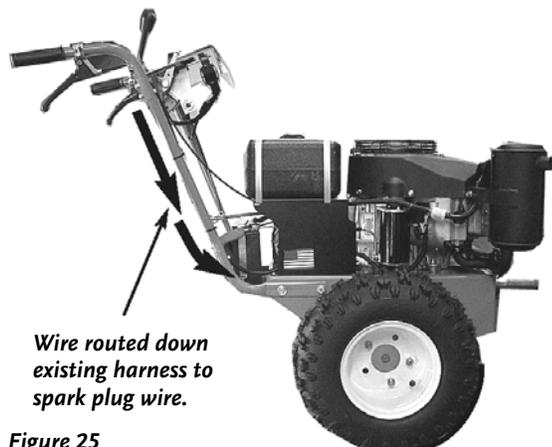


Figure 25

8. Route the remaining Meter wire forward, following down the existing wiring harness toward the engine spark plug wire (**Figure 25**).
9. Attach the Sensor Wire to the Spark Plug Wire by wrapping it around the plug wire as shown in Figure 25. Secure the Sensor Wire back on itself with a Cable Tie (**Figure 26**). The Meter installation is now complete.

NOTE 1: The Maintenance Meter is fully automatic with a display that may be read at all times, whether the engine is ON or OFF.

NOTE 2: During engine ON, the engine RPM is displayed, when the engine is OFF, accumulated Run Time hours is displayed.

NOTE 3: After 25 Hours of engine ON time, the meter will automatically flash a "Change Oil" display. The flashing will continue for several hours of operation even after you change the oil.

NOTE 4: If the engine RPM display is not responding to changes in engine speed, check the connections at the Meter and Spark Plug.

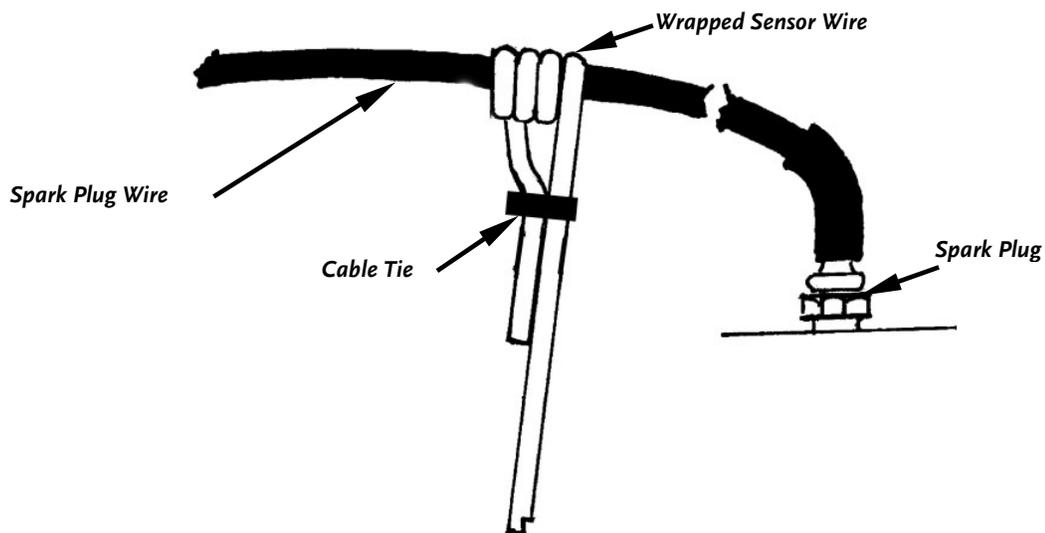


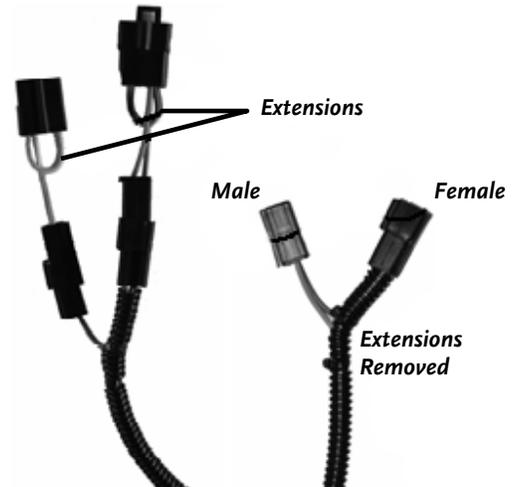
Figure 26

Installing the Interface Relay Harness on the AT3 model

1. Remove the two (2) Extensions (**Figure 27**) from the Upper End of the Generator Wire Harness.
2. Locate the Operator Presence connection beneath the Control Panel (**Figure 28**) and separate the connectors by grasping the wires on each side of the connector and pulling in opposite directions as shown.

NOTE: The Generator Connectors are male and female and will only connect to the ATM Harness one way.

3. Connect the Generator Wire Harness to the ATM Harness as shown in **Figure 29**.
4. Locate and drill a 3/16" hole in the Right Side Gas Tank Support, if not already there. Refer to page 13, step 5 for instructions and a list of required tools.
5. Run the lower end of the new Interface Relay Harness, with the Relay attached, down along the Right Handlebar and in back of the Right Tank Support, and mount the Relay. Refer to steps 6 through 12 on page 14 for the routing, mounting of the Relay and connection of the Harness to the Generator.
6. The Harness installation is now complete. If you are installing a Maintenance Meter, refer to page 15.



Upper End of Generator Wire Harness

Figure 27

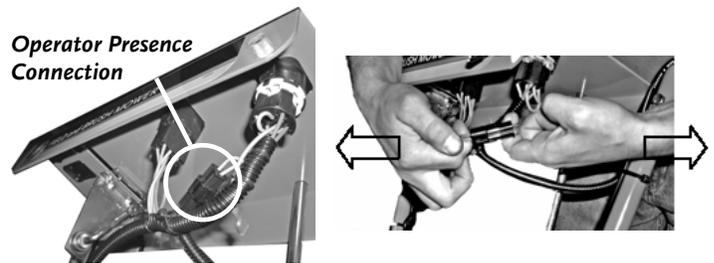


Figure 28

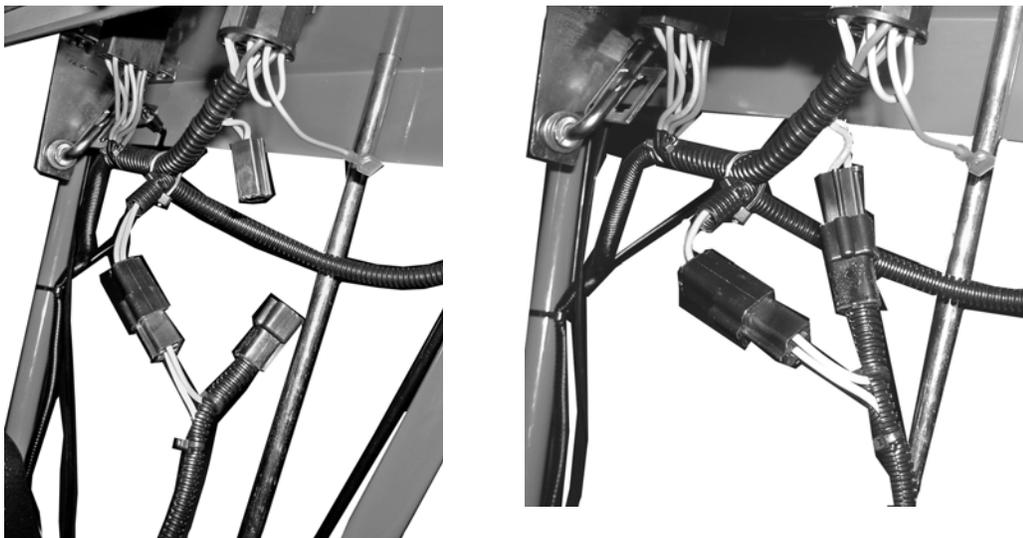


Figure 29

OPERATING YOUR DR GENERATOR ATTACHMENT

This chapter discusses the basic operation of your new DR GENERATOR ATTACHMENT. It may be helpful to familiarize yourself with the features on your Generator by reviewing the picture below before beginning the steps outlined in this chapter.

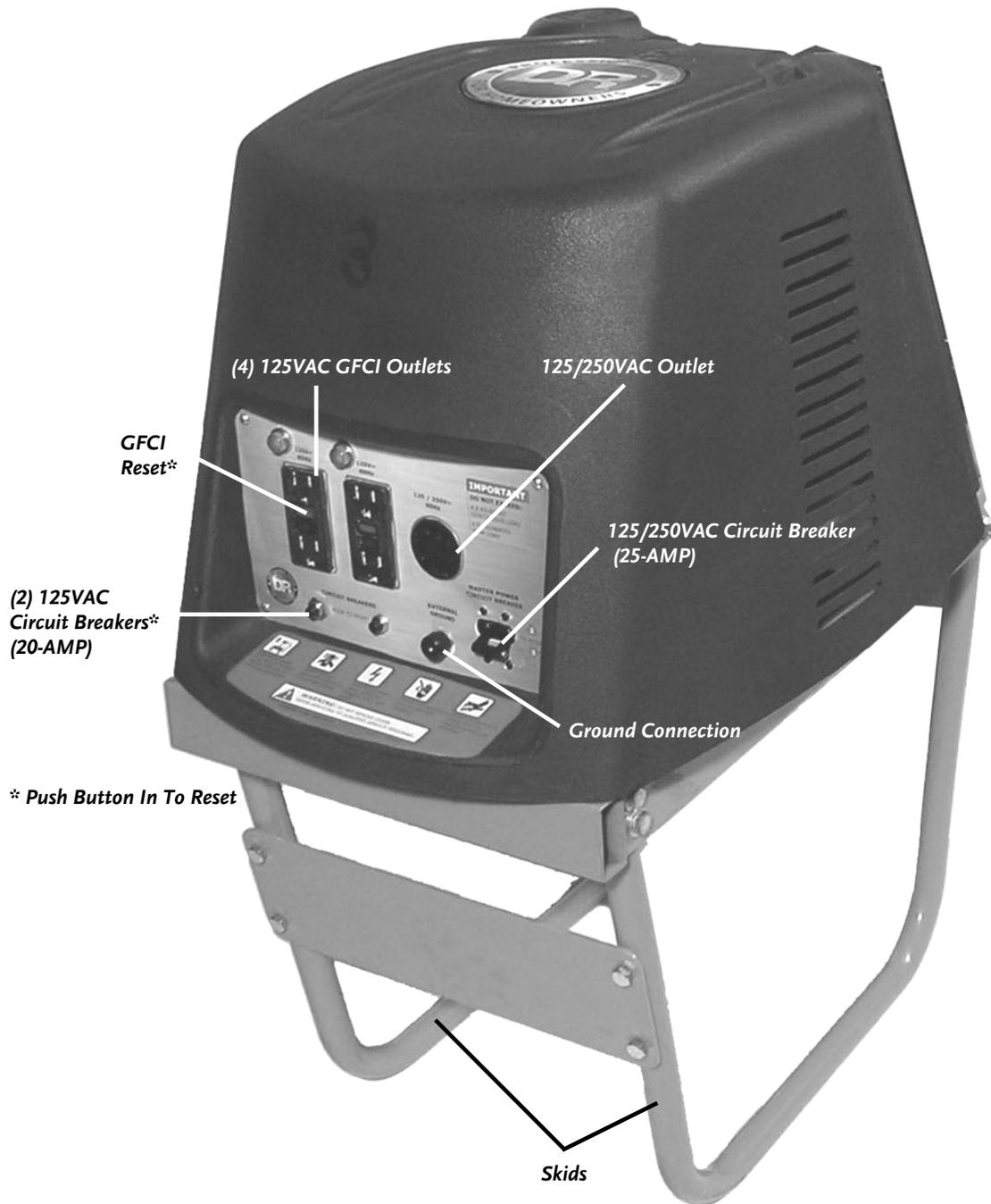


Figure 30

Specifications

Length	26-1/2"
Width	16-1/2"
Height	31"
Weight	90 lbs.
AC Output:	
Rated Voltage	125/250 VAC
Rated Frequency	60 Hz
Rated Current	40/25 Amps
Rated Output (continuous)	4.8 – 5.5 Kilowatts
Maximum Output	6.0 Kilowatts

Receptacles

! WARNING!

USE ONLY EXTENSION CORD SETS THAT ARE RATED FOR 125 VAC LOADS AT 20 AMPS OR GREATER.

- The DR GENERATOR ATTACHMENT is equipped with two (2) 125VAC, 20 AMP, Duplex, Ground Fault Circuit Interrupter (GFCI) Receptacles. Use each receptacle to operate 125VAC, single-phase, 60 Hz electrical loads requiring up to 2,400 Watts (2.4 KW). Each duplex outlet is protected against overload with a push-to-reset circuit breaker (**Figure 30**).
- The DR GENERATOR ATTACHMENT is also equipped with a 125/250VAC, 25 AMP, Locking Receptacle. Use this receptacle to operate 125/250VAC, single-phase, 60 Hz electrical loads requiring up to 6,000 Watts (6.0 KW) at 25 AMPS for 125 or 250VAC. Use only a NEMA L14-30 plug (**Figure 31**) with a 4-wire cord set rated for 250VAC loads at 30 AMPS or greater (**Figure 31**). The same 4-wire cord can also be used to operate a 125VAC appliance having this type of connector. This outlet is also protected against overload with a circuit breaker (**Figure 30**).

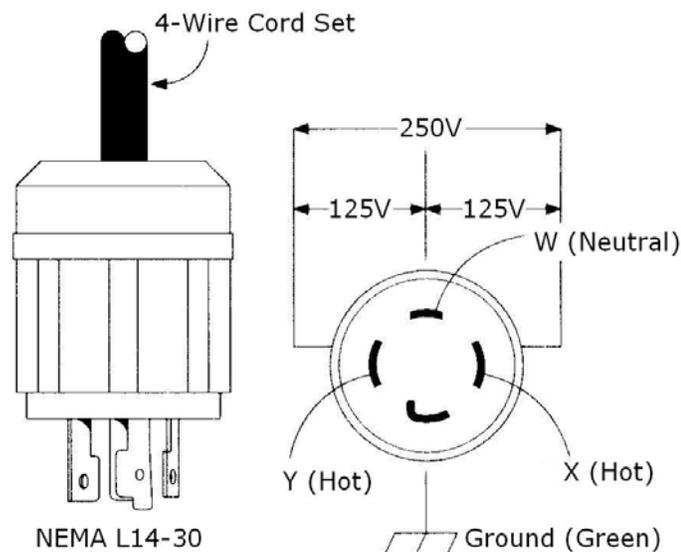


Figure 31

Grounding the Generator

The National Electrical Code requires that the frame and external electrically conductive parts of this Generator be properly connected to an approved earth ground. Local electrical codes may also require proper grounding of the Generator. For that purpose, an EXTERNAL GROUND fastener is provided on the Generator (**Figure 32**).

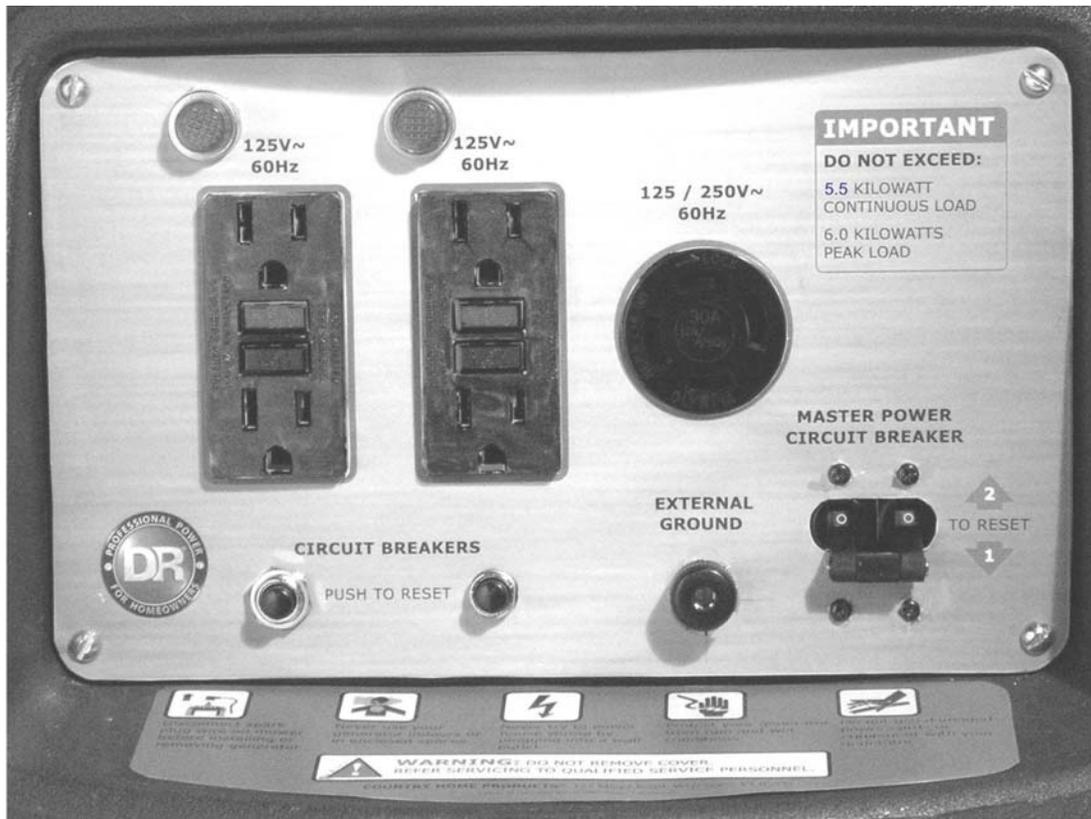


Figure 32

Generally, connecting a #12 AWG copper wire to the EXTERNAL GROUND fastener and then to an earth-driven copper or brass grounding-rod provides adequate protection against electrical shock. However, local codes may vary; consult with a local electrician for grounding requirements in your area.

Properly grounding the Generator helps prevent electrical shock if a ground fault condition exists in the Generator or in connected appliances. Proper grounding also helps dissipate static electricity, which often builds up in ungrounded devices. A Ground Fault Circuit Interrupter (GFCI) is provided in the 125VAC receptacles on the Generator front panel (**Figure 30**).

Operating Safety

WARNING!

- TO PREVENT ELECTRICAL SHOCK, MAKE SURE ALL APPLIANCES ARE IN GOOD WORKING ORDER BEFORE YOU CONNECT THEM TO YOUR DR GENERATOR ATTACHMENT.
 - MAKE SURE THE GENERATOR IS PROPERLY GROUNDED.
 - DO NOT CONNECT 250VAC APPLIANCES TO THE 125VAC DUPLEX OUTLETS.
 - DO NOT CONNECT 3-PHASE LOADS TO THE GENERATOR.
 - DO NOT CONNECT 50 HZ APPLIANCES TO THE GENERATOR.
 - ANY CONNECTION FOR AUXILIARY POWER TO A BUILDING MUST BE MADE BY A LICENSED ELECTRICIAN (USING AN ISOLATION TRANSFORMER/SWITCH) AND MUST COMPLY WITH ALL APPLICABLE LAWS AND ELECTRICAL CODES. IMPROPER CONNECTIONS CAN ALLOW ELECTRICAL CURRENT FROM THE GENERATOR TO FEED BACK INTO THE UTILITY LINES AND MAY ELECTROCUTE A UTILITY WORKER THAT CONTACTS THE LINES DURING A POWER OUTAGE. ALSO, WHEN THE UTILITY POWER IS RESTORED FROM AN OUTAGE, THE GENERATOR MAY EXPLODE, BURN, OR CAUSE FIRES IN THE BUILDING ELECTRICAL WIRING.
-

NOTICE!

- THE TOTAL WATTAGE OF THE APPLIANCES CONNECTED TO THE DR GENERATOR ATTACHMENT MUST NOT EXCEED 6.0 KILOWATTS.
 - FOR CONTINUOUS OPERATION, DO NOT EXCEED 5.5 KILOWATTS FOR MORE THAN 30 MINUTES.
 - MOST MOTORIZED APPLIANCES REQUIRE MORE THAN THEIR RATED WATTAGE FOR START-UP. DO NOT EXCEED THE CURRENT LIMIT SPECIFIED FOR ANY GENERATOR OUTPUT (*FIGURE 30*).
 - A CIRCUIT BREAKER ON THE FRONT PANEL OF THE DR GENERATOR ATTACHMENT (*FIGURE 30*) WILL AUTOMATICALLY TRIP (BUTTON POPS OUT) IF THAT INDIVIDUAL CIRCUIT IS OVERLOADED OR IF A DEFECTIVE APPLIANCE IS PLUGGED INTO THE CIRCUIT. IF A CIRCUIT BREAKER TRIPS AUTOMATICALLY, CHECK THAT THE APPLIANCE CONNECTED DOES NOT EXCEED THE RATED LOAD CAPACITY FOR THAT CIRCUIT AND/OR THE APPLIANCE IS WORKING PROPERLY BEFORE RESETTING THE CIRCUIT BREAKER (*FIGURE 30*).
-

NOTE: You can determine an appliance's wattage rating by multiplying its required voltage (125VAC or 250VAC) by the amount of current (Amps) it draws. Also see Generator Loading Guidelines on the next page.

Generator Loading Guidelines

Capacity

- Make sure the Generator can supply enough rated (running) and surge (starting) watts for the items you will power at the same time. Follow these simple steps:
- Select the items to be powered at the same time.
- Total the rated (running) watts of these items. This is the amount of power the Generator must produce to keep the items running (*Table 1 – Wattage Reference Chart*).
- Estimate how many surge (starting) watts that will be required. Surge wattage is the short burst of power needed to start electric motor-driven tools or appliances such as a circular saw or refrigerator. Since all motors do not start at the same time, total surge watts can be estimated by adding only the item(s) with the highest additional surge watts to the total rated watts from Step 2.

Example:

Tool or Appliance	Rated (Running) Watts	Additional Surge (Starting) Watts
Sprayer	600	1200
Light – 75W	75	-
Refrigerator	800	1600
Freezer	500	-
Television	500	-

2475 Total Running Watts 1600 Highest Surge Watts

Total Rated (Running) Watts = 2475

Highest Additional Surge Watts = 1600

Total Generator Output Required = 4075

Table 1-Wattage Reference Chart

Tool or Appliance	Rated* (Running Watts)	Additional Surge (Starting Watts)
Job Site		
Circular Saw	1500	1500
Electric Drill-1/2HP	1000	1000
Table Saw - 10"	2000	2000
Air Compressor	2500	2500
Airless Sprayer-1/3 HP	600	1200
Reciprocating Saw	960	960
Miter Saw - 10"	1800	1800
Table Planer - 6"	1800	1800
Work Light-Quartz Halogen	1000	-
Essentials		
Light Bulb – 75Watt	75	-
Deep Freezer	500	500
Refrigerator/Freezer 18 Cu. Ft.	800	1600
Water Well Pump- 1/3 HP	1000	2000
Sump Pump	800	1200
Water Heater-40 Gal.	4000	--
Kitchen		
Coffee Maker	1500	-
Microwave Oven	1000	-
Hot Plate	2500	-
Electric Stove-Single Element	1500	-
Heating/Cooling		
Furnace Fan-1/2 HP	800	1300
Window Fan	300	600
AC - 10,000 BTU	1200	1800
Family Room		
Color TV-27"	500	-
PC w/17" Monitor	800	-
VCR	100	-
Other		
Garage Door Opener	480	520
AM/FM Clock Radio	300	-
Security System	180	-

* Wattages listed are approximate only. Check tool or appliance for actual wattage.

Operating the DR GENERATOR ATTACHMENT



NOTICE!

NEVER START OR STOP THE GENERATOR WITH AN APPLIANCE OR TOOL PLUGGED IN.

1. Set the Parking Brake on your DR *All-Terrain* Field and Brush Mower.
2. Make certain that the Shift Lever is in the Neutral position and the PTO is in the Disengaged position.
3. Plug the Generator Wire Harness into the Relay Wire Harness at the fuel tank mount. Be sure the Main Power Switch on the Generator is OFF.
4. Start the engine in accordance with Chapter 4 of the *Safety & Operating Instructions* for your DR *All-Terrain* Field and Brush Mower.
5. After the engine has warmed up, set the Throttle to Run. Verify the engine RPM is at least 3300 RPM as indicated on the Maintenance Meter.
6. To start the Generator, hold the Operator Presence Lever down with your left hand and slowly engage the PTO (Generator Belt Drive). When the generator is up to speed, release the Operator Presence Lever.
7. Plug the appliance(s) that you wish to use into the corresponding outlet(s) (125VAC or 250VAC 60 Hz only) required by appliance(s).

NOTE: *To prolong the life of your Generator and the attached tools or appliances, it is important to take care when adding electrical loads to the Generator. The correct and safe way to manage Generator power is to sequentially add loads a follows:*

- Plug-in and turn-on the first appliance or tool, preferably the largest rated load.
 - Permit the Generator output to stabilize (ATM engine runs smoothly and attached load operates properly).
 - Plug-in the next appliance or tool in the other outlet and again, permit the Generator to stabilize. Repeat this Step for each additional load. Keeping the load balanced between the two (2) 125 V outlets will prolong the life of your Generator by reducing the vibration loads.
 - NEVER add more tools or appliances than the Generator capacity. Take care to consider surge as explained on the previous page.
8. Upon completion of your work, turn-off and unplug the appliance(s) from the Generator and allow the ATM and Generator to run under a “no-load” condition for approximately 2 minutes before disengaging the PTO drive. This will allow the ATM and Generator to cool down.
 9. Turn OFF the Master Power Circuit Breaker on the Generator Control Panel, disengage the PTO drive on the ATM control panel, return the Throttle to Idle and turn off the ATM engine. Be sure to remove the Key from the ATM for safety.
 10. When removing the Generator from the ATM, be sure to disconnect the Generator harness from Connector D at the Interface Relay. See **Figure 18** on page 14.

Cold Weather Operation

Under certain weather conditions (temperatures below 40°F [4°C] and a high dew point), your ATM engine may experience icing of the carburetor and/or the crankcase breather system. Country Home Products, Inc. offers an optional engine cover to prevent icing in these weather conditions. The cover can be purchased through Country Home Products, Inc. by calling **1(800) DR-OWNER (376-9637)**. Please have your ATM Model# and Serial# at hand when the call is placed.

MAINTAINING THE DR GENERATOR ATTACHMENT

Regular maintenance is the way to ensure the best performance and long life of your DR GENERATOR ATTACHMENT. Please refer to this manual for maintenance procedures.

WARNING!

- **WHEN PERFORMING ANY MAINTENANCE ON THE DR GENERATOR ATTACHMENT WHEN THE UNIT IS STILL ATTACHED TO THE ATM, YOU MUST FIRST DISCONNECT THE SPARK PLUG WIRE(S) ON THE ATM.**
 - **ONLY A LICENSED ELECTRICIAN SHOULD REMOVE THE COVER OR FRONT PANEL OF THE GENERATOR.**
-

Regular Maintenance Check List before each use

- Check the engine oil level in your DR *All-Terrain* Field and Brush Mower.
- Check the general condition of the ATM and Generator, e.g.; nuts, bolts, welds etc.
- Make sure that the Generator is dry and there is no foreign material in the outlets.
- Check the condition of the Drive Belt for nicks and fraying, replace if necessary. See page 12.

End of Season and Storage

WARNING!

- **WHEN PERFORMING ANY MAINTENANCE ON THE DR GENERATOR ATTACHMENT WHEN THE UNIT IS STILL ATTACHED TO THE ATM, YOU MUST FIRST DISCONNECT THE SPARK PLUG WIRE(S) ON THE ATM.**
 - **ONLY A LICENSED ELECTRICIAN SHOULD REMOVE THE COVER OR FRONT PANEL OF THE GENERATOR.**
-

- Wipe down the Generator to remove any moisture and dirt that may have accumulated, especially in and around the outlets.
- Vacuum out any accumulated debris from the Generator vents.
- Store the DR GENERATOR ATTACHMENT in a dry area to prevent moisture from damaging the electrical components.

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!

- **WHEN PERFORMING ANY MAINTENANCE ON THE DR GENERATOR ATTACHMENT WHEN THE UNIT IS STILL ATTACHED TO THE ATM, YOU MUST FIRST DISCONNECT THE SPARK PLUG WIRE(S) ON THE ATM.**
- **ONLY A LICENSED ELECTRICIAN SHOULD REMOVE THE COVER OR FRONT PANEL OF THE GENERATOR.**

SYMPTOM	POSSIBLE CAUSE
No output voltage at any outlet.	⇒ The PTO (Blade Drive) is not engaged. ⇒ The Generator Drive Belt is broken or fell off the pulleys. Replace the Drive Belt and be sure the Belt Tension Lever is secured. See page 12.
No output voltage at one or more outlet.	⇒ The circuit breaker has tripped for the outlet in question. Reset the breaker by pushing the breaker button in until it clicks in the closed position. See page 19.
A circuit breaker trips when an appliance or tool is plugged in.	⇒ Defective (shorted or wet) power cord on the appliance or tool, or in the extension cord, if one is being used. Replace the power cord per the appliance or tool instruction manual or replace the extension cord. ⇒ If the problem persists, call: 1(800) DR-OWNER (376-9637) for assistance.
A circuit breaker trips when an appliance or tool is turned on.	⇒ Check that the rated power and surge power required by the appliance or tool is within the Generator output specification. See page 23. ⇒ If the problem persists, call: 1(800) DR-OWNER (376-9637) for assistance.
ATM stalls when PTO is engaged to start the Generator.	⇒ Be sure the Generator power switch is OFF. ⇒ Be sure the Generator Wire Harness is plugged into the Relay Wire Harness. See page 14, Figure 18 . ⇒ Hold down the Operator Presence Lever while engaging the PTO. When the Generator is up to speed, release the Operator Presence Lever.

NOTE: Country Home Products, Inc. has provided parts lists and schematic diagrams as reference tools only. CHP makes no representation or warranty of any kind to the buyer that he/she is qualified to make any repairs to the product or that he/she is qualified to replace any parts of the product. In fact, CHP expressly states that all repairs and parts replacement should be undertaken by certified and licensed technicians and not by the buyer. The buyer assumes all risk and liability arising out of his/her repairs to the original product or replacement parts thereto, or arising out of his/her installation of replacement parts thereto.

PARTS LIST AND SCHEMATIC DIAGRAMS

Parts List - DR GENERATOR ATTACHMENT

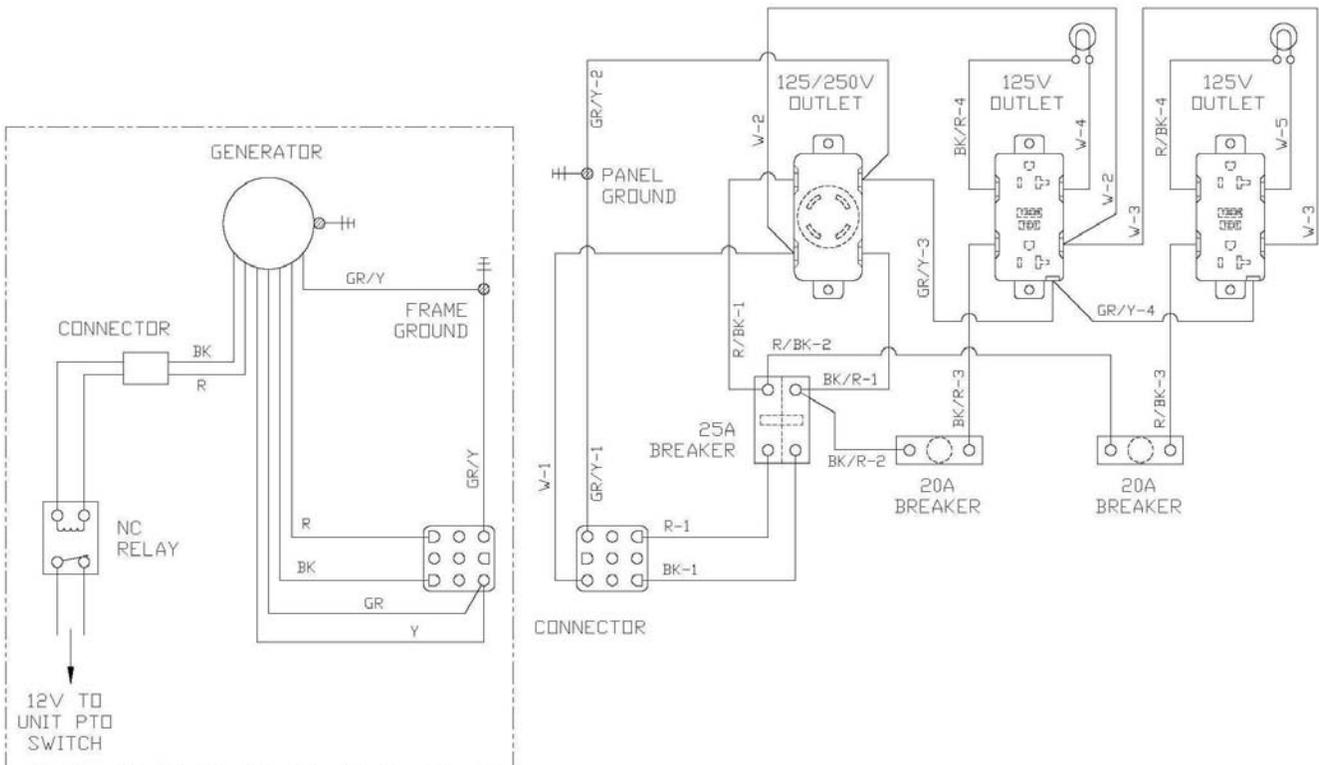
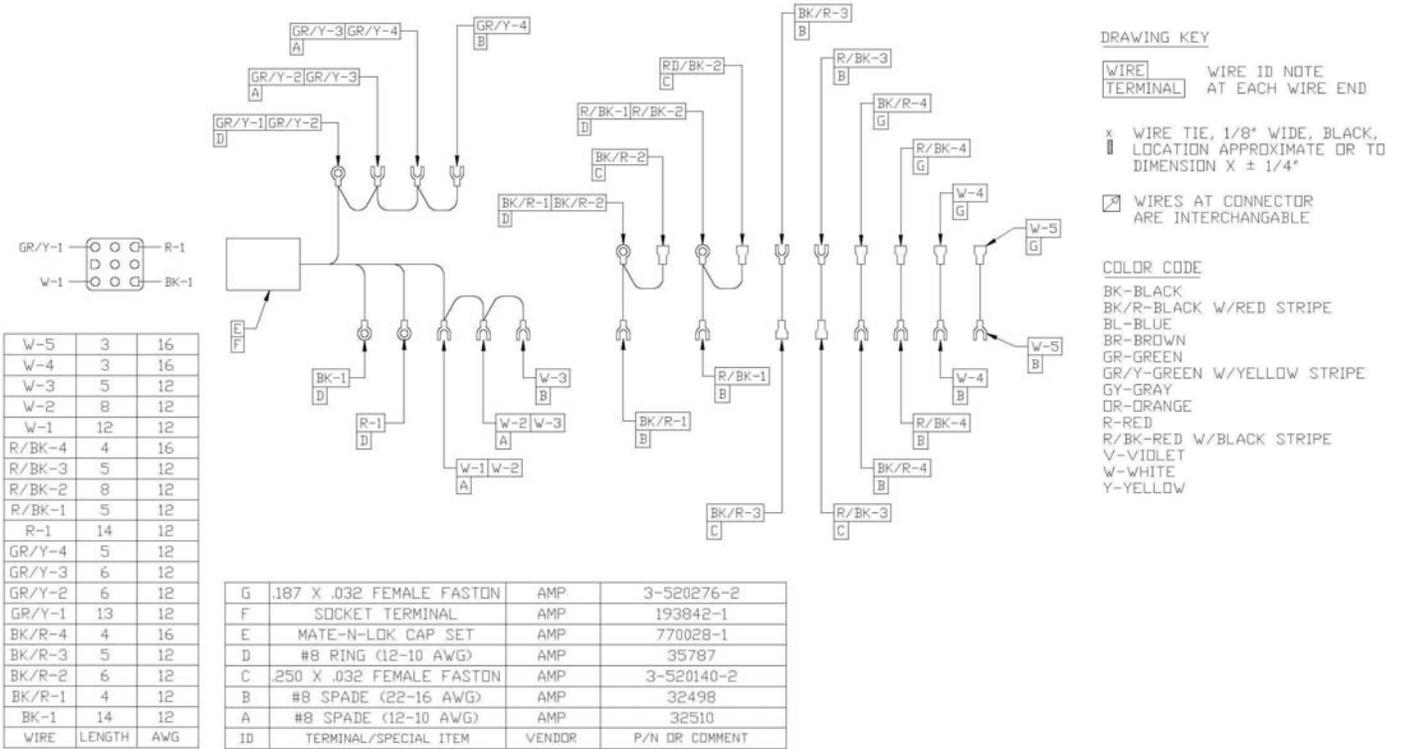
NOTE: Part numbers listed are available through Country Home Products.

<u>Ref#</u>	<u>Part#</u>	<u>Description</u>	<u>Not Illustrated</u>	
01	110691	Nut, 5/16"-18		
02	110731	Nut, Nylon Lock, 1/4"-20	114781	Screw, Pan Head, 10-24 x 5/8"
03	110761	Nut, Nylon Lock, 5/16"-18	118731	Nut, Nylon Lock, 10-24
04	112311	Spacer, .327" ID x .500" OD	131661	Parts Shipped Separate Form
05	112381	Washer, Flat, 1/4", USS	150681	Belt, B63K, 5/8" x 66"
06	112391	Washer, 3/8", USS	184271	Meter, Hour/RPM/Maintenance
07	112431	Washer, Split Lock, 5/16"	189741	Wire Harness, OP Override
08	112501	Washer, Lock, 5/16"	192401	Key, M8 x 1"
11	123211	Bolt, 5/16"-18 x 3/4", HCS	189561	Safety & Operating Manual
12	123601	Bolt, 5/16"-18 x 2-1/4", HCS		
14	192671	Bolt, M8 x 1"		
15	150451	Bolt, 5/16"-18 x 1-3/4", HCS	<u>Safety & Information Labels</u>	
16	150611	Idler Arm, Traction Drive		
18	150941	Spring, .750" OD x .112"	192421	Warnings Label
19	151111	Bushing, .390" ID x .620" OD	191971	Control Panel
20	151271	Pulley, Flat, Idler, 4"	192391	DR Logo, 5-3/4"
21	164131	Nut, Nylon Lock, 3/8"		
22	164401	Lever, Belt Tension Release		
23	164841	Bolt, 3/8"-16 x 2-1/2", HCS		
25	188401	Frame, Generator		
26	188411	Plate, Generator, Mounting		
27	189501	Generator, 6KW (includes 189541)		
28	189511	Skid, Generator		
29	189521	Cover w/Control Box Cover		
30	189531	Pulley, V-Belt, Generator		
31	189541	Wire & Electrical Assy. w/Plate		
32	189731	Support, Skid, Generator		
36	192411	Bolt, M8 x 1-1/4"		
38	192641	Screw, Pan Head, 8-32 x 3/8"		

Electrical Schematics - DR GENERATOR ATTACHMENT

WIRING NOTES:

- SPECIFICATIONS FOR 12 AWG AND 16 AWG WIRE: UL AWM STYLE 1015, CSA TEW 105°C, PVC INSULATION.



Notes:

Notes:

DR[®] GENERATOR ATTACHMENT



2-Year Limited Warranty

Terms and Conditions

The DR[®] GENERATOR ATTACHMENT 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.

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[®] GENERATOR ATTACHMENT 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[®] GENERATOR ATTACHMENT 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 belt. Attachments and accessories to the machine are not covered by this warranty.

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

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

Country Home Products, Inc. shall not be liable under any circumstances for any **incidental or consequential damages or expenses** of any kind, including, but not limited to, cost of equipment rentals, loss of profit, or cost of hiring services to perform tasks normally performed by the DR[®] GENERATOR ATTACHMENT.

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.

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

Daily Checklist for the DR GENERATOR ATTACHMENT

To help maintain your DR GENERATOR ATTACHMENT for optimum performance, we recommend you follow this checklist each time you use your Generator.

- [] Check the engine oil level in your DR Field and Brush Mower.
- [] Check the general condition of the ATM and Generator, e.g.; nuts, bolts, welds etc.
- [] Make sure that the Generator is dry and there is no foreign material in the outlets.
- [] Check the condition of the Drive Belt for nicks and fraying.



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