

DR[®] POWERWAGON



SAFETY & OPERATING INSTRUCTIONS

**Models: Premier
Pro
Pro-XL**



Serial No. _____

Order No. _____

Original Language

DR Power Equipment
Toll-free phone: 1-800-DR-OWNER (376-9637)
Fax: 1-802-877-1213
Website: www.DRpower.com

⚠ WARNING

Read and understand this manual and all instructions before operating the DR POWERWAGON.

Table of Contents

Chapter 1: General Safety Rules..... 3
Chapter 2: Setting Up The DR POWERWAGON 7
Chapter 3: Operating The DR POWERWAGON..... 17
Chapter 4: Maintaining The DR POWERWAGON 21
Chapter 5: Troubleshooting 29
Chapter 6: Parts Lists and Schematic Diagrams..... 32

Conventions used in this manual

⚠ WARNING

This indicates a hazardous situation, which, if not followed, *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.

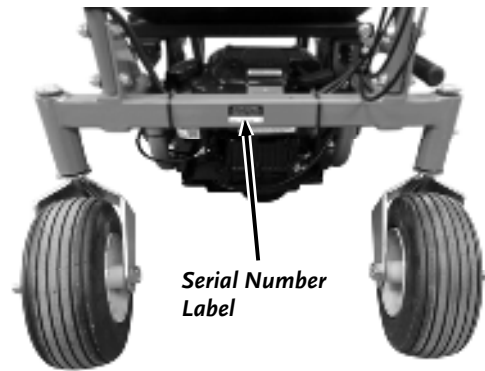


Figure 1

Serial Number and Order Number

A Serial Number is used to identify your machine and is located on the Serial Number Label on your machine. An Order Number is used to check and maintain your order history and is located on the upper left portion of your packing slip. For your convenience and ready reference, enter the Serial Number and Order Number in the space provided on the front cover of this manual.

Additional Information and Potential Changes

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

Chapter 1: General Safety Rules

⚠ WARNING

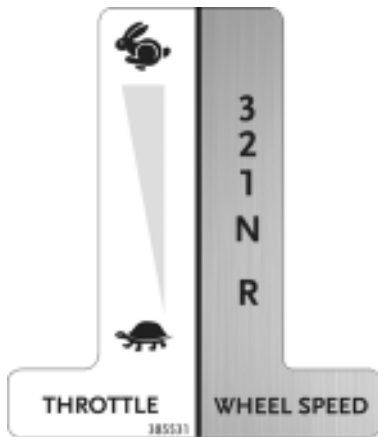
Read this safety & operating Instructions manual before you use the DR POWERWAGON. Become familiar with the operation and service recommendations to ensure the best performance from your machine. If you have any questions or need assistance, please contact us at www.DRpower.com or call toll-free 1-800-DR-OWNER (376-9637) and one of our Technical Support Representatives will be happy to help you.

Labels

Your DR POWERWAGON carries prominent labels as reminders for its proper and safe use. Shown below are copies of all the Safety and Information labels that appear on the equipment. Take a moment to study them and make a note of their location on your POWERWAGON as you set up and before you operate the unit. Replace damaged or missing safety and information labels immediately.



#38555



#38553


WARNING: Check Oil Before Starting Engine

#13758



#37055

⚠ WARNING! AVOID SERIOUS INJURY OR DEATH









Read and understand the operator's manual.

- Read and understand the operator's manual.
- Never exceed the maximum recommended load. Overloading may permanently damage the unit.
- Never carry passengers.

38552

#38552

 1-800-DR-OWNER DRpower.com	<p>TO START ENGINE</p> <ol style="list-style-type: none"> 1. Shift WHEEL SPEED to NEUTRAL 2. Move THROTTLE to  3. Rotate KEY to  (Electric start) Rotate KEY to  (Manual Start) 4. Pull RECOIL on engine (Manual Start) 	<p>TO DUMP</p> <ol style="list-style-type: none"> 1. On Pro & Pro-XL models, remove the tail gate. 2. Pull the dump handle and lift upward. 3. After dumping, push the dump handle down 4. Ensure the dump handle is securely latched before loading or operating. 	<p>WHEEL DRIVE</p> <ol style="list-style-type: none"> 1. Select desired WHEEL SPEED 2. Depress TRACTION DRIVE LEVER to drive. 3. Release TRACTION DRIVE LEVER to stop. 	<p>TO SHUT OFF ENGINE</p> <ol style="list-style-type: none"> 1. Move THROTTLE to  2. Turn KEY to  <p><i>Note:</i> Releasing OPERATOR PRESENCE LEVER (RED) while Drive is in gear will shut off the engine.</p>
	<p>Do not operate Powerwagon on slopes greater than 15 degrees.</p>			

#38554

DUMP LEVER

#15342

Protecting Yourself and Those Around You

WARNING

This is a high-powered machine, with moving parts operating with high energy at high speeds. Use proper clothing and safety gear when operating this machine to prevent or minimize the risk of severe injury. You must operate the machine safely. Unsafe operation can create a number of hazards for you. Always take the following precautions when operating this machine:

- Wear shoes with non-slip treads when using your DR POWERWAGON. If you have safety shoes, we recommend wearing them. Do not use the machine while barefoot or wearing open sandals.
- Avoid wearing loose clothing or jewelry, which can catch on the machine's moving parts.
- Use ear protectors or ear plugs rated for at least 20 dba to protect your hearing.
- Never allow people who are unfamiliar with these instructions to use the DR POWERWAGON. Allow only responsible individuals who are familiar with these rules of safe operation to use your machine.
- Never place your hands, feet, or any part of your body near or under any moving part while the machine is running.
- To be safe, do not operate the machine near small children or pets, and never allow children to operate the DR POWERWAGON.
- The muffler and engine become very hot and can cause a severe burn; do not touch.
- Never, under any conditions, remove, bend, cut, fit, weld, or otherwise alter standard parts on the DR POWERWAGON. This includes all shields and guards. Modifications to your machine could cause personal injuries and will void your warranty.

Slope Operation

WARNING

Slopes are a major factor related to slip and fall accidents, which can result in severe injury. All slopes require caution. If you feel uneasy on a slope, do not use the DR POWERWAGON on it. Always take the following precautions when using this machine on slopes:

Always:

- Traverse up and down the face of slopes; never across. Exercise extreme caution when changing direction on slopes.
- Watch for holes, ruts, or bumps in the landscape.
- Use 1st gear on slopes with a maximum load of 800 lbs.

Never:

- Operate near drop-offs, ditches, or embankments; you could lose your footing or balance.
- Operate on slopes greater than 15 degrees, or any excessively steep slopes.
- Operate on wet, or slippery slopes; reduced traction could result in slipping.
- Park the DR POWERWAGON on a steep grade or slope.

Safety with Children and Pets

WARNING

Tragic accidents can occur if the operator is not alert to the presence of children and pets. Children are often attracted to the machine and the hauling 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 the DR POWERWAGON engine if children or pets enter the work area.
- Before, and while moving backwards, look behind, and **down** for small children and pets.
- Never allow children to operate the DR POWERWAGON.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure your vision.

Safety with Gasoline-Powered Machines

WARNING

Gasoline is a highly flammable liquid. Gasoline also gives off flammable vapor that can be easily ignited and cause a fire or explosion. Never overlook the hazards of gasoline. Always follow these precautions:

- Never run the engine in an enclosed area or without proper ventilation as the exhaust from the engine contains carbon monoxide, which is an odorless, tasteless, and deadly poisonous gas.
 - Store all fuel and oil in containers specifically designed and approved for this purpose and keep away from heat and open flame, and out of the reach of children.
 - Fill the gasoline tank outdoors with the engine off and allow the engine to cool completely. Do not handle gasoline if you or anyone nearby is smoking or if you are near anything that could cause it to ignite or explode. Replace the fuel tank and fuel container caps securely.
 - If you spill gasoline, do not attempt to start the engine. Move the machine away from the area of the spill and avoid creating any source of ignition until the gas vapors have dissipated. Wipe up any spilled fuel to prevent a fire hazard and properly dispose of the waste.
 - Allow the engine to cool completely before storing the DR POWERWAGON in any enclosure. Never store the machine with gas in the tank or a fuel container near an open flame or spark, such as a water heater.
 - Never make adjustments or repairs with the engine running. Disconnect the spark plug wire and keep the wire away from the spark plug to prevent accidental starting.
 - Never check for an ignition spark with the spark plug or spark plug wire removed. Use an approved spark tester.
 - Never tamper with safety devices. Check their proper operation regularly.
 - Do not change the engine governor settings or modify the engine speed. Modifications will void your warranty.
 - To reduce fire hazard, keep the engine cooling fan and muffler area free of debris build-up such as leaves, grass, oil, grease or any other combustible material.
 - Never operate the engine without the muffler. Inspect the muffler periodically and replace if necessary. If equipped with a muffler deflector, inspect the deflector 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 air filter.
 - Check fuel lines and fittings frequently for cracks or leaks, replace if necessary.
 - Replace rubber fuel lines and grommets when worn or damaged and after 5 years of use.
-

General Safety

WARNING

The DR POWERWAGON 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 machine:

- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people, their property, and themselves.
 - Your DR POWERWAGON is not a plaything. Exercise extreme caution at all times. The design of this machine is to haul material. Do not use it for any other purpose.
 - Give complete and undivided attention to the job at hand. Before you use your new machine, be sure you know how to engage the parking brake and stop the DR POWERWAGON at a moment's notice.
 - Always operate the DR POWERWAGON from behind the handlebars, never from the side.
 - Never use the DR POWERWAGON to drag or tow items.
 - Do not overload the DR POWERWAGON. Be careful of top-heavy loads. The higher the load, the more chance of tipping over the machine. Loads may shift during operation; to be safe, secure your loads and even them out when possible. The maximum load is 500 lbs. (Premier), 700 lbs. (Pro) and 800 lbs. (Pro-XL).
 - Use 1st gear with loads over 300 lbs. And on slopes. Excessive speed can be dangerous. Operate the machine in the lowest gear that is satisfactory to do the job.
-

General Safety (Continued)

WARNING

- Use caution when moving downhill and braking. Apply the parking brake slowly to avoid tipping forward.
 - When shifting to reverse, be careful to avoid tipping as the swivel wheel changes direction.
 - Watch for traffic when operating near roadways.
 - Never allow people or pets to ride in the DR POWERWAGON.
 - If the machine should start making an unusual noise or vibration, stop the engine and wait five (5) minutes to cool. Vibration is generally a warning of trouble. Disconnect the spark plug wire and inspect for damaged parts. Clean and repair and/or replace damaged parts.
 - Built-in safety features, such as the operator presence system, are effective only when maintained and kept in place.
 - Always keep the equipment in a good safe operating condition. Always make certain nuts and bolts are tight and always use the supplied self-locking hardware; do not substitute. Use only approved DR parts.
 - Use the DR POWERWAGON only in daylight.
 - While using the machine, do not hurry or take things for granted. When in doubt about the equipment or your surroundings, stop the machine and take the time to look things over. Make sure that you have 100% control of the machine at all times.
 - Never leave the DR POWERWAGON unattended with the engine running.
 - Do not operate the machine when under the influence of alcohol, drugs, or medication.
 - See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by DR Power Equipment.
-

California Proposition 65

WARNING

California Proposition 65:

- Engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects, and other reproductive harm.
 - This product contains or emits chemicals known to the state of California to cause cancer, birth defects, and other reproductive harm.
-

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® POWERWAGONS shipped to California, New Mexico 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 State Park Association or the appropriate state organization for specific information in your area.

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 DR® POWERWAGON in a safe manner. Contact us at www.DRpower.com or call 1-800-DR-OWNER (376-9637) for assistance.

Additional Information and Potential Changes

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Chapter 2: Setting Up The DR POWERWAGON

It may be helpful to familiarize yourself with the controls and features of your DR POWERWAGON as shown in Figure 2 before beginning these procedures. If you have any questions at all, please feel free to contact us at www.DRpower.com.

DR PREMIER POWERWAGON Controls and Features

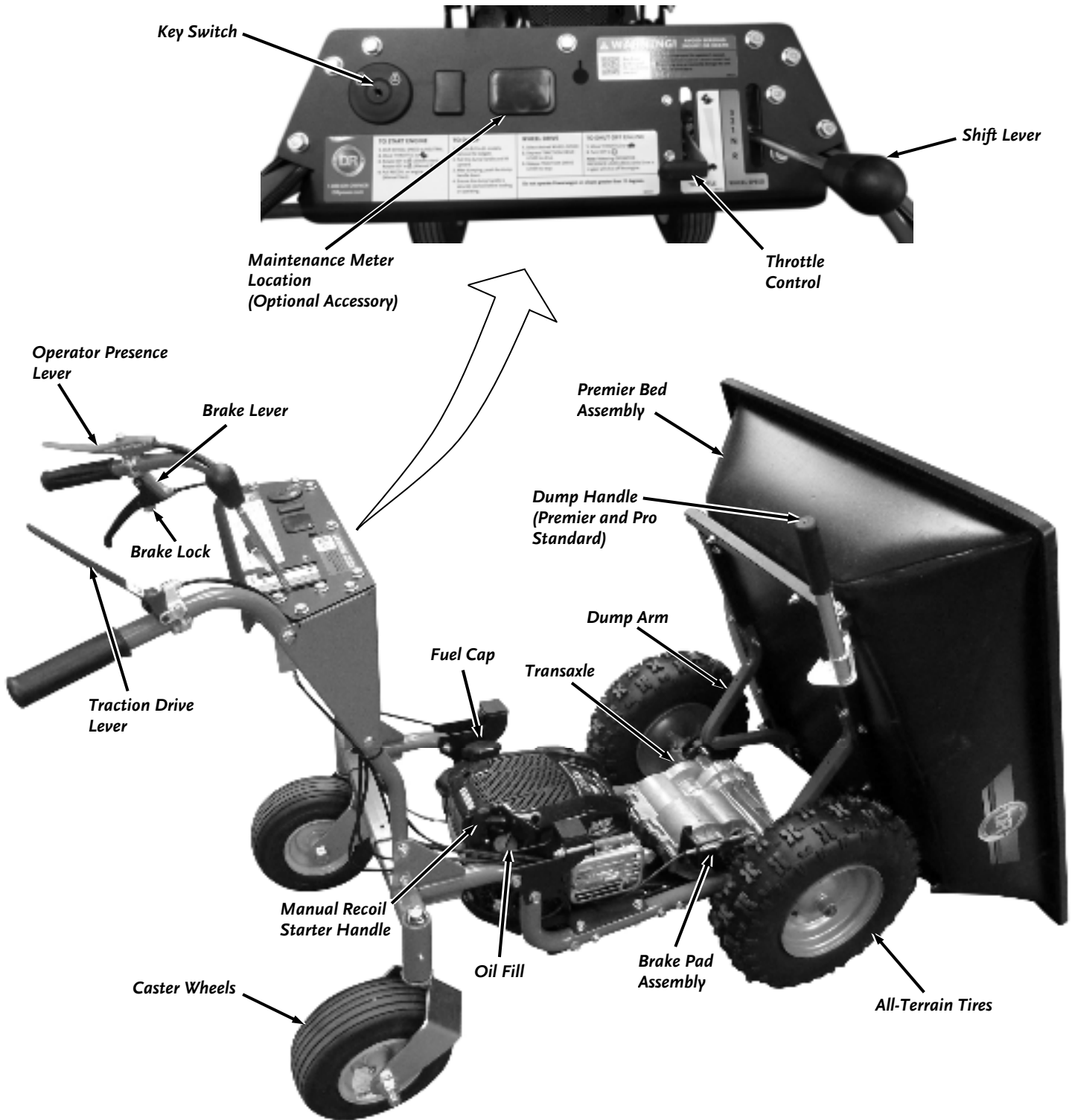


Figure 2a

DR PRO and PRO-XL POWERWAGON Controls and Features

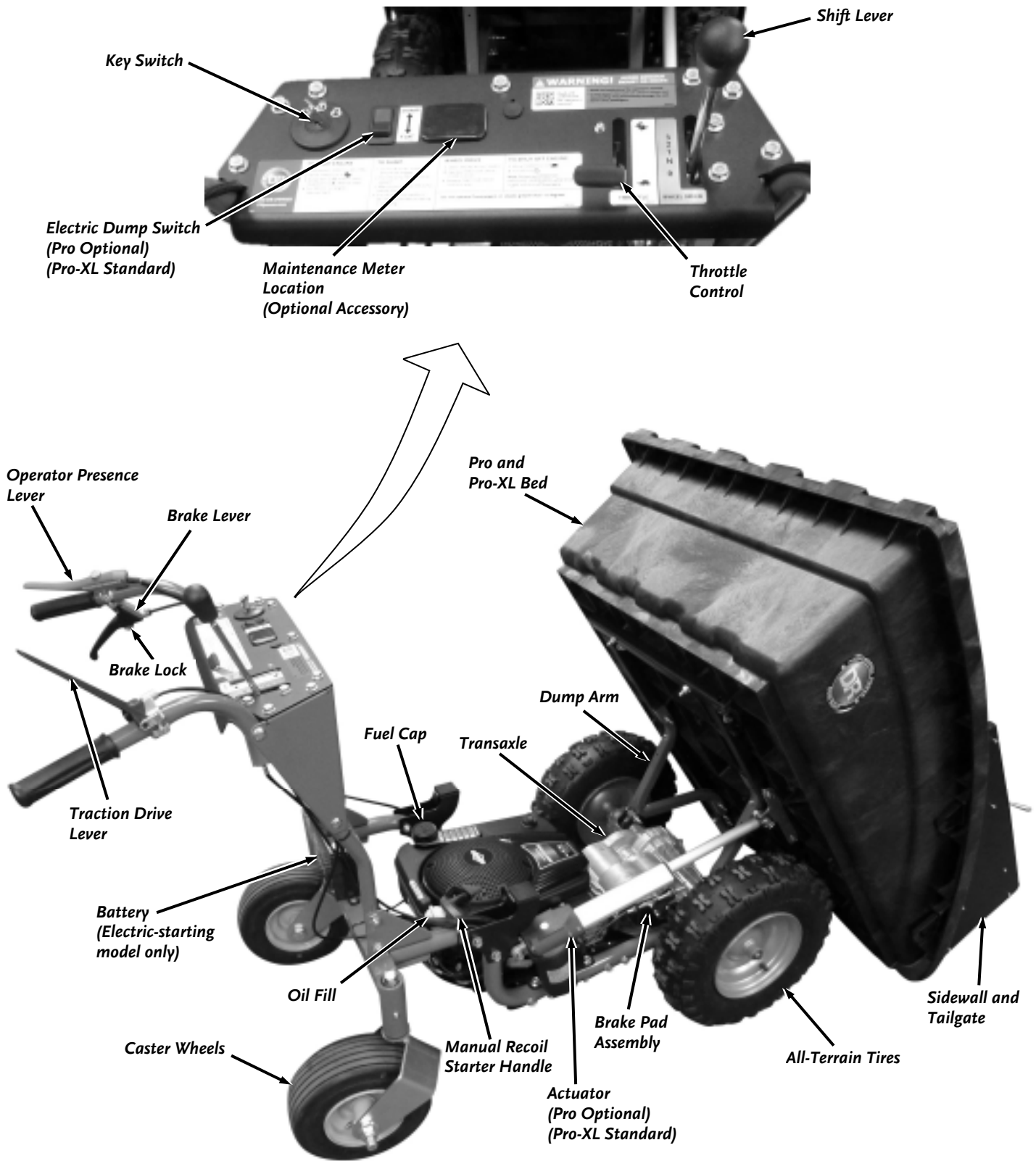


Figure 2b

Specifications

	PREMIER	PRO	PRO-XL
Engine	Briggs & Stratton (See Engine Owner's Manual for Engine Specifications)	Briggs & Stratton (See Engine Owner's Manual for Engine Specifications)	Briggs & Stratton (See Engine Owner's Manual for Engine Specifications)
BATTERY			
	N/A	12V, 9 Ah	12V, 9 Ah
BED			
Capacity - Volume (Cu Ft)	5.2	8	8
Capacity - Weight (Lbs)	500	700	800
Bed Height (In)	20	20	20
Construction	High-Density Polyethylene (Hdpe)	Cellular Core High Strength Molded Polyethylene	Cellular Core High Strength Molded Polyethylene
Dump Angle (Degrees)	60°	60°	60°
Latch Mechism	Intergrated Latch & Handle	Intergrated Latch & Handle	N/A (Actuator Latches The Bed)
TRANSMISSION			
Speeds	Forward 3: 3.7 Mph Forward 2: 2.4 Mph Forward 1: 1.3 Mph Reverse: 1.4 Mph	Forward 3: 3.7 Mph Forward 2: 2.4 Mph Forward 1: 1.3 Mph Reverse: 1.4 Mph	Forward 3: 3.7 Mph Forward 2: 2.4 Mph Forward 1: 1.3 Mph Reverse: 1.4 Mph
Brake	Transaxle Disc Brake	Transaxle Disc Brake	Transaxle Disc Brake
FRAME			
Frame Type	Tubular Steel (1.5" Diameter X 12 Ga Thick)	Tubular Steel (1.5" Diameter X 12 Ga Thick)	Tubular Steel (1.5" Diameter X 12 Ga Thick)
Skid Plate	9 Ga Thick	9 Ga Thick	9 Ga Thick
Handlebar Height (In)	37	37	37
ACTUATOR			
Included	N/A	N/A	Yes
Full Load Speed (Mm/S (In/S))	N/A	N/A	12 (0.47)
Full Load Seconds/Lift	N/A	N/A	16.745
No Load Speed (Mm/S (In/S))	N/A	N/A	20 (0.79)
No Load Seconds/Lift	N/A	N/A	9.962
Stroke (Mm (In))	N/A	N/A	200 (7.87)
Duty Cycle	N/A	N/A	10% (Approximately 1 Full Capacity Load Every 4.5 Minutes)
Enclosure Rating	N/A	N/A	IP65
WHEELS			
Front (Size & Type)	16" Diameter, 4" Width, Snowhog Tread	16" Diameter, 4" Width, Snowhog Tread	16" Diameter, 4" Width, Snowhog Tread
Rear (Size & Type)	11" Diameter, 4" Width, Rib	11" Diameter, 4" Width, Rib	11" Diameter, 4" Width, Rib
DIMENSIONS			
Overall Product Dim's	66.5 L X 33.25 W X 41 H	63.25 L X 34.5 W X 41 H	63.25 L X 34.5 W X 41 H
Product Weight	184	231	240
Ground Clearance	2"	2"	2"

Assembling the DR POWERWAGON

Tools & Supplies Needed:

- Two 9/16" Wrenches
- 1/2" Wrench
- 1/2" Socket with Ratchet and Extension
- Two 3/4" Wrenches
- 10" Adjustable Wrench

Parts Supplied in Product Package - PREMIER AND PRO MODELS (Figure 4 and list below):

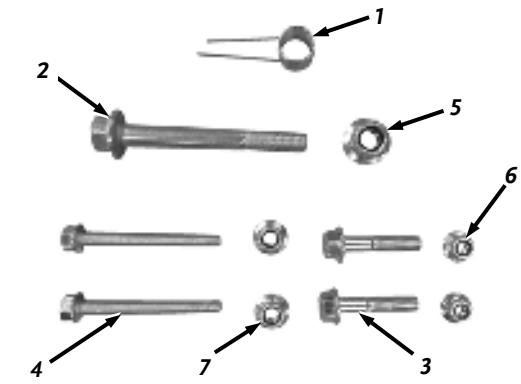


Figure 4

Item #	Part #	Description	Qty
1	38540	Spring, Torsion, 360 Deg, .063" Wire, .798" OD ...	1
2	33353	Bolt, Hex, Flange, 1/2-13 X 4", GR5	1
3	38596	Bolt, Hex, Flange, 3/8-16 X 1-3/4", GR5, ZP	2
4	38598	Bolt, Hex, Flange, 5/16-18 X 2-1/2", GR8, ZP	2*
5	33335	Nut, Nylon Lock, Flanged, 1/2-13	1
6	33333	Nut, Nylon Lock, Flanged, 3/8-16	2
7	33332	Nut, Nylon Lock, Flanged, 5/16-18	2*

*Pro Model has Quantity of 4 for these items.

Parts Supplied in Product Package – PRO-XL MODEL (Figure 5 and list below):

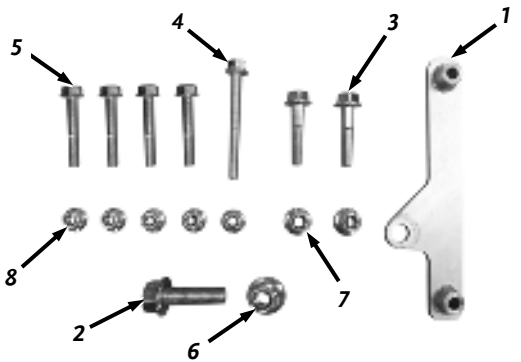


Figure 5

Item #	Part #	Description	Qty
1	37936	Bracket, Actuator, Dump Arm	1
2	39084	Bolt, Hex, Flange, 1/2-13 X 1-1/2", GR5, ZP	1
3	38596	Bolt, Hex, Flange, 3/8-16 X 1-3/4", GR5, ZP	2
4	39085	Bolt, Hex, Flange, 5/16-18 X 3", GR8, ZP	1
5	38598	Bolt, Hex, Flange, 5/16-18 X 2-1/2", GR8, ZP	4
6	33335	Nut, Nylon Lock, Flanged, 1/2-13	1
7	33333	Nut, Nylon Lock, Flanged, 3/8-16	2
8	33332	Nut, Nylon Lock, Flanged, 5/16-18	5

Compare the contents of the Product Package with the "Parts Supplied in Product Package" list above. If you have any questions please contact us at www.DRpower.com or call 1-800-DR-OWNER (376-9637) for assistance.

1. Lift the Handlebars to the operating position and install a 3/8-16 X 1-3/4 Flange Bolt and Locknut on each side using two 9/16" Wrenches (Figure 6).

Note: Ensure that the top Handlebar Bolts are installed in the same direction as the lower Bolts with the heads on the inside of the Handlebars.

2. Tighten the lower Handlebar Bolts that were already in place.

Premier Bed - Assembly and Installation

If you have the Pro or Pro-XI Model, refer to the next section "Pro and Pro-XL Bed - Assembly and Installation".

If you are installing the Flatbed on your POWERWAGON, proceed to the "Flatbed Installation" section in this Chapter.

1. Position the Dump Handle at the right rear corner of the Bed where the Mounting Bracket is located (Figure 7).

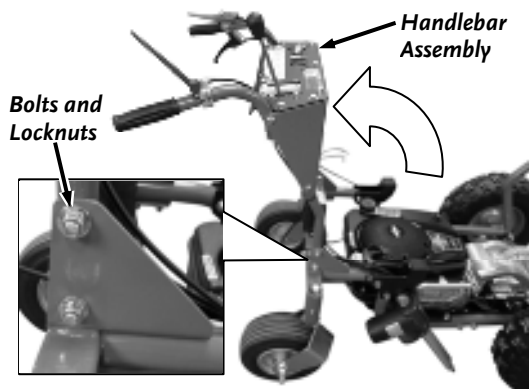


Figure 6

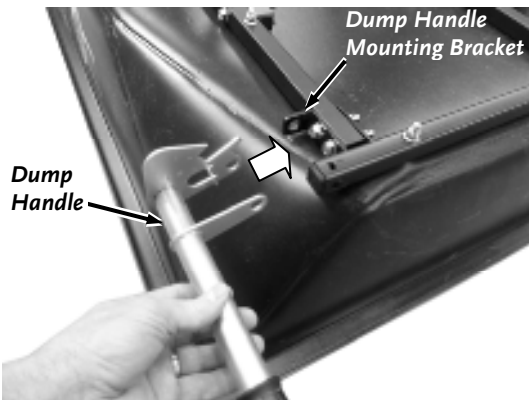


Figure 7

2. Insert one end of the Torsion Spring into the small hole in the Frame (positioned as shown) and push it through to the hole on the other side of the Frame Tube (Figure 8).
3. Install the 1/2-13 X 4" Flange Bolt through the Frame, Spring and Dump Lever. Secure with the 1/2-13 Locknut using two 3/4" Wrenches. Do not over tighten.
4. Rotate the remaining end of the Spring and secure it under the Spring Tab (Figure 9).
5. Remove the Locknuts from the front of the Bed Frame and use a 1/2" Wrench to turn the Front Bed Bolts out so the end of the threads are flush with the inside of the Frame opening (Figures 10 and 11).

Note: To ease the process of aligning the ends of the Bolts, a 10" Adjustable Wrench can be used on the Frame Tube to align the holes.

6. Place the Bed on the Power Wagon with the Dump Arms inside the Frame at the front of the Bed Assembly (Figures 12).
7. Ensure the back of the Bed Assembly is on the Bed Rest Brackets and the Dump Lever is fully latched onto the Latch Pin (Figure 13).

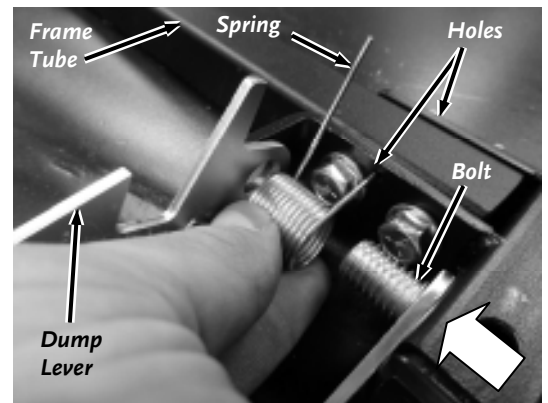


Figure 8

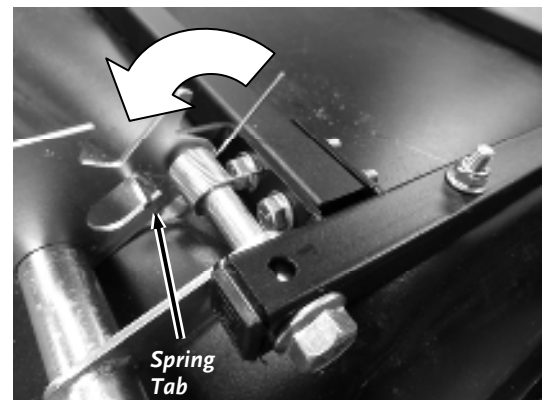


Figure 9

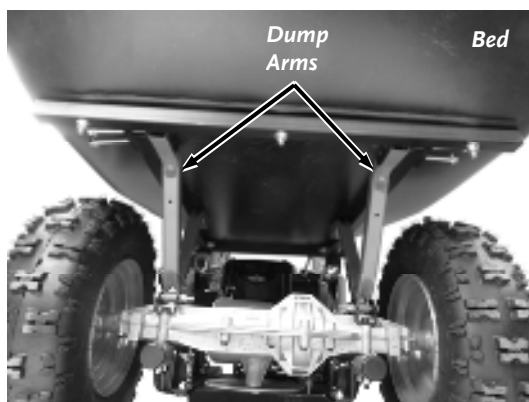


Figure 12

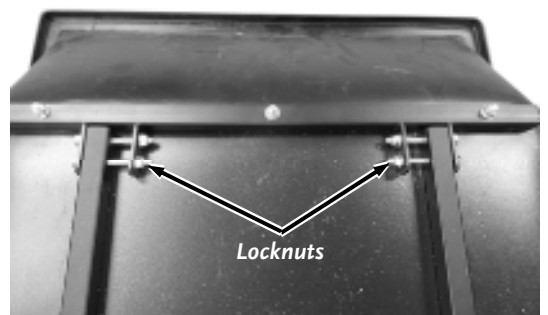


Figure 10

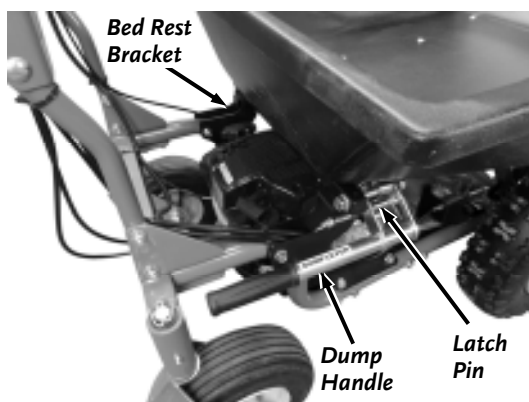


Figure 13

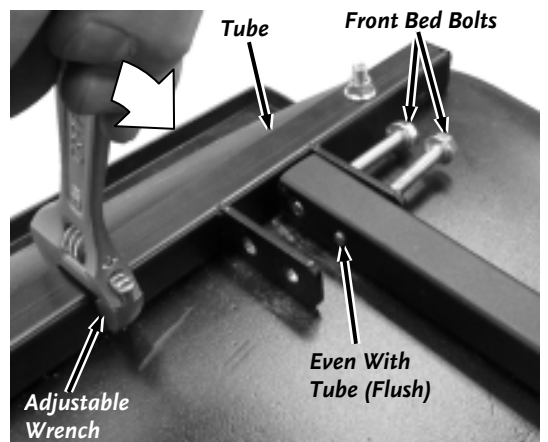


Figure 11

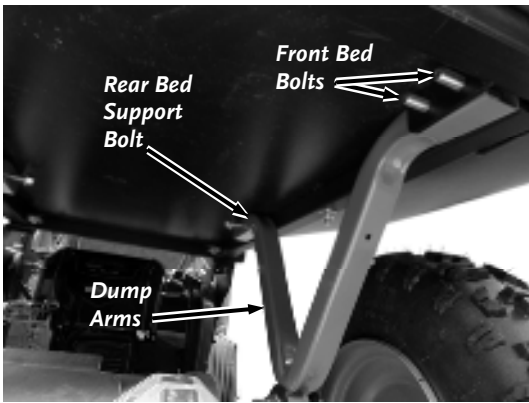


Figure 14

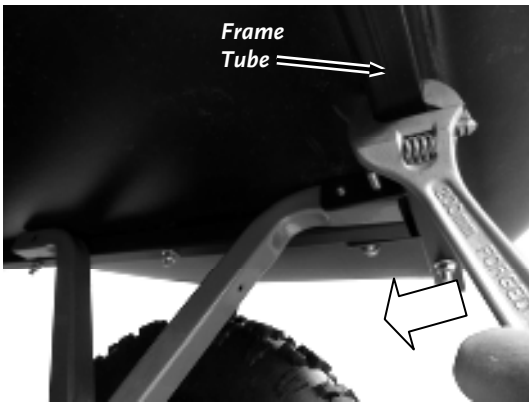


Figure 15

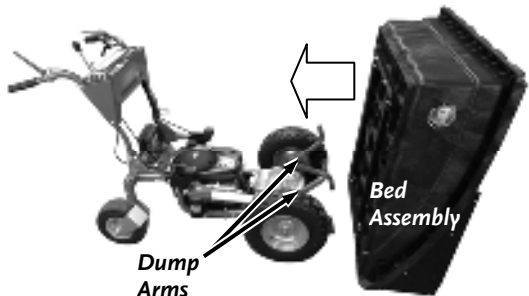


Figure 16

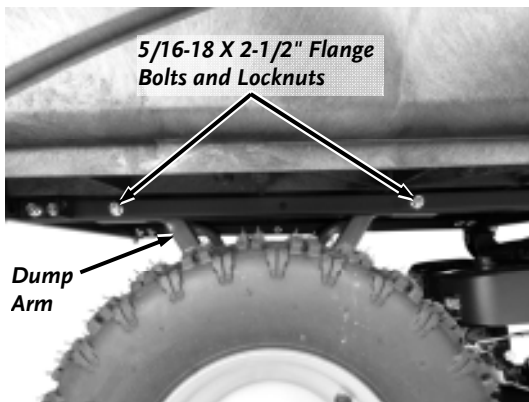


Figure 17

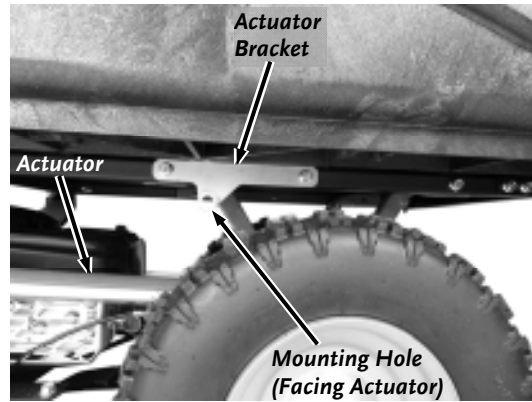


Figure 18

8. Turn the Front Bed Bolts through the Frame and Dump Arms at the front of the Bed with a 1/2" Socket and Ratchet with Extension (**Figure 14**).

Note: If the Bolts are not aligning well with the holes in the Frame and Dump Arms, a 10" Adjustable Wrench can be used on the front Frame Tube to align the holes (**Figure 15**).

9. Secure the Front Bed Bolts to the Frame and Bed Supports with the four 5/16-18 Locknuts (you removed in step 5) using a 1/2" Wrench and 1/2" Socket.

10. Secure the rear of the Dump Arms to the Frame with two 5/16-18 X 2-1/2" Flange Bolts and Locknuts using a 1/2" Wrench and Socket (**Figure 14**).

Your Premier POWERWAGON assembly is complete. Proceed to the "Check the Tire Pressure" section in this Chapter to continue with the setup of your machine.

Pro and Pro-XL Bed - Assembly and Installation

If you are installing the Flatbed on your POWERWAGON, proceed to the "Flatbed Installation" section in this Chapter.

PRO MODEL WITH HAND DUMP

1. Installing the Dump Handle on the Pro Model is the same as the Premier Model. Refer to Steps 1 through 4 of "Premier Bed - Assembly and Installation" if you do not have the Actuator Dump option.

PRO and PRO-XL MODELS

1. Place the Bed Assembly at the front of the machine with the Tailgate end resting on the ground (**Figure 16**).

2. Move the Bed Assembly onto the Dump Arms and rotate the Bed back and onto the Dump Arms.

PRO MODEL WITH HAND DUMP

1. Secure the Bed Frame to the Dump Arms with four 5/16-18 X 2-1/2" Flange Bolts and Locknuts using a 1/2" Wrench and 1/2" Socket with Ratchet and Extension (**Figure 17**).

PRO-XL MODEL ACTUATOR DUMP

1. For the following steps the Actuator Bracket must be positioned on the right hand side of the Frame with the mounting hole towards the Actuator (**Figure 18**).

- Secure the rear of the Actuator Bracket to the Frame and Dump Arm with a 5/16-18 X 3" Flange Bolt and Locknut using a 1/2" Wrench and 1/2" Socket with Ratchet and Extension (**Figure 19**).
- Secure the front of the Actuator Bracket with a 5/16-18 X 2-1/2" Flange Bolt using a 1/2" Wrench and 1/2" Socket with Ratchet and Extension.
- Secure the front/right (**Figure 19**) and both left side locations (**Figure 20**) of the Bed Frame to the Bed Supports with three 5/16-18 X 2-1/2" Flange Bolts and Locknuts using a 1/2" Wrench and 1/2" Socket with Ratchet and Extension.
- Remove the Plastic Protectors (if present) from the end of the actuator (**Figure 21**).
- Secure the end of the Actuator to the Actuator Bracket with a 1/2-13 X 1-1/2" Flange Bolt and Locknut using two 3/4" Wrenches.

BOTH MODELS

- Install the Tail Gate onto the front of the Bed Assembly (**Figure 22**).

Note: Ensure that the Guide Pins are fully into the Bed and that the Tabs at both sides are locked into the Side Walls.

Flatbed Installation (Figure 23)

- Installing the Dump Handle on the Flatbed is the same as the Premier Model. Refer to Steps 1 through 4 of "Premier Bed - Assembly and Installation". See "PRO MODEL WITH HAND DUMP" to secure the Flatbed to the Dump Arms.
- Installing the Actuator Bracket and attaching the Actuator to the Flatbed is the same procedures as the "Pro-XL Model Actuator Dump". Refer to Steps 1 through 6 of "Pro-XL Model Actuator Dump".



Figure 23

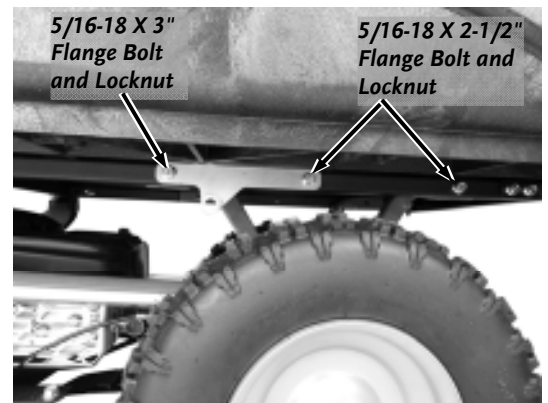


Figure 19

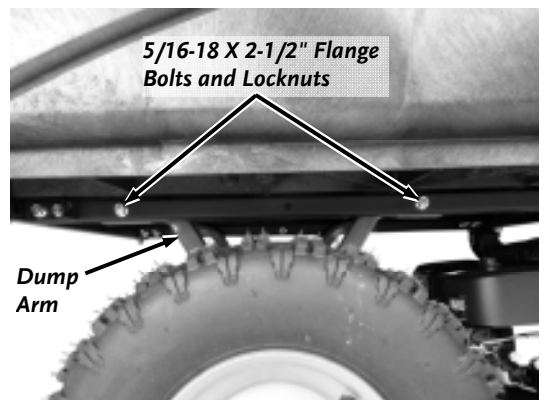


Figure 20

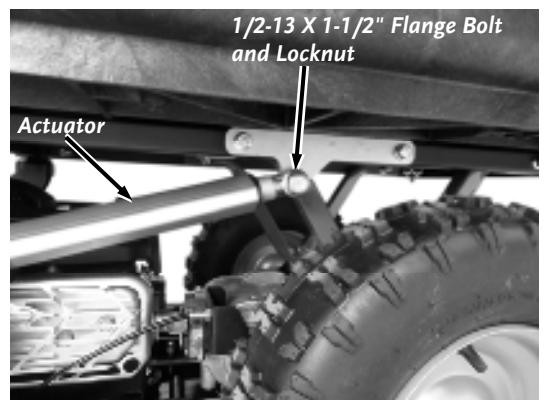


Figure 21

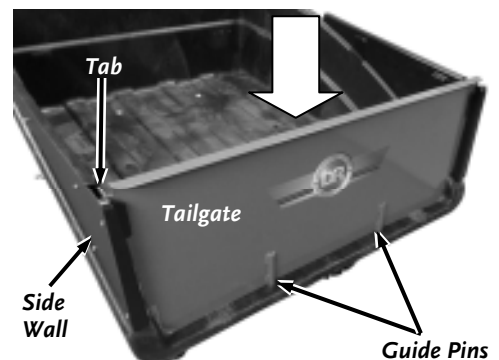


Figure 22



Valve Stem Protective Cap

Figure 24

Check the Tire Pressure

Tools Needed:

- Tire Pressure Gauge
- Air Compressor

WARNING

Do not over inflate the tires. Inflate to the manufacturers recommended pressure found on the tires.

1. Remove the Valve Stem Protective Cap and check the tire pressure with a tire pressure gauge (**Figure 24**).
2. If the pressure is too low, add air through the Valve Stem with an air hose.
3. Replace the Valve Stem Protective Cap when finished.

Note: The heavier the load, the higher the tire pressure should be. Do not go above the maximum recommended load or pressure.

Adding Oil and Gasoline

Engine Oil Capacity: Refer to the Engine Owner’s manual for Engine capacities and specifications.

NOTICE

You must add oil before starting the engine. This machine is shipped without oil. Traces of oil may be in the reservoir from factory testing, but you must add oil before starting the engine. Fill the reservoir slowly, checking the dipstick frequently to avoid overfilling.

To get an accurate reading when checking the oil level:

- The machine should be on a level surface.
- The dipstick should be screwed down on Briggs & Stratton engines.

Tip: To avoid confusion, we recommend leaving the Caps on the Fuel and Oil Fills until you are ready to pour either gasoline or oil into the correct Fill.

Note: Use only SAE 30 High Detergent oil. Other types of oil could cause problems operating your machine. Please refer to your Engine Owner’s Manual for detailed oil information. You must lift the Bed to access the Oil and Fuel Reservoirs.

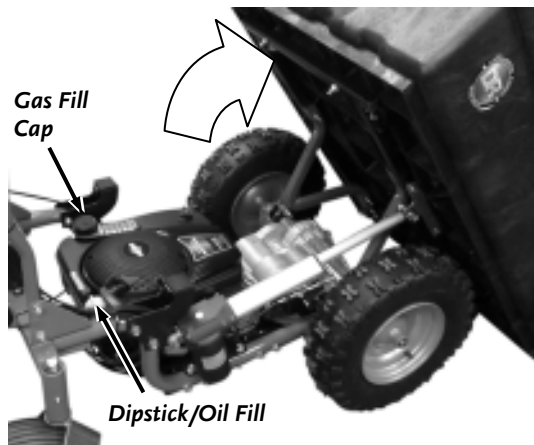


Figure 25

1. Place the machine on a level surface and lift the Bed to the fully up position (**Figure 25**).
2. Remove the Oil Dipstick/Fill Cap.
3. Initially add 14 oz. of SAE 30 High Detergent oil recommended by the Engine Manufacturer and wait one minute for the oil to settle.
4. Check the level on 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.
5. Fill the Fuel Tank to not more than 1/4" from the bottom of the Fill Neck with fresh, unleaded gas. See the Engine Manufacturer’s Owner’s Manual for more information.

Connect the Battery Wires (Electric Start Models)

1. Remove any protective Caps that may be on the Battery Terminals from shipping.
2. Connect the red wire to the red Terminal and connect the black wire to the black Terminal (**Figure 26**).

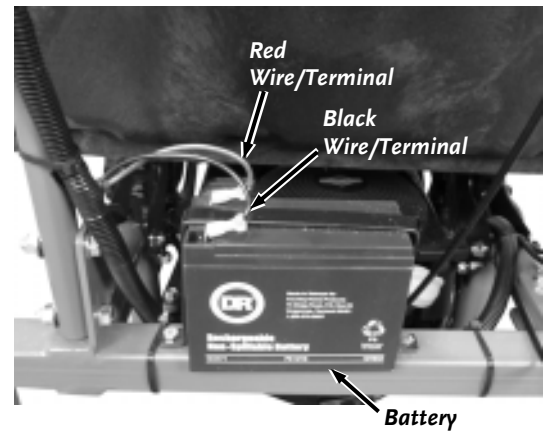


Figure 26

Chapter 3: Operating The DR POWERWAGON




It may be helpful to better familiarize yourself with the features of your DR POWERWAGON by reviewing **Figure 2** in Chapter 2 before beginning the steps outlined in this chapter.

Before Starting the Engine

1. Check the oil level every time you use the machine (**Figure 25** on page 14).
2. Check the gas level (**Figure 25** on page 14).
3. Check the tires for proper inflation (**Figure 24** on page 14).
4. Make sure the Dump Latch is secured (Premier and Pro Models) (**Figure 2a** on page 7).
5. Set the Parking Brake by squeezing the Brake Lever on the right Handlebar and lift up on the Parking Brake Lock, locking the Lever in place (**Figure 27**).



Note: The DR POWERWAGON is equipped with an Operator Presence Control for added safety. The Operator Presence Lever must be depressed whenever the Shift Lever is in gear, or the Engine will stop. You may run the Engine without depressing the Operator Presence Lever (**Figure 27**) only if the Shift Lever is in the "N" (Neutral) position (**Figure 28**).

Electric Starting

1. Move the Shift Lever to the NEUTRAL **N** position (**Figure 28**).
2. Move the Throttle Lever to the FAST  position.
3. Turn the Key to the START  position. As soon as the Engine starts, release the Key, and it will return to the RUN  position.

Manual Recoil Starting

Note: Manual recoil starting can be used for both Electric-Starting and Manual-Starting models.

1. Move the Shift Lever to the NEUTRAL **N** position (**Figure 28**).
2. Move the Throttle Lever to the FAST  position.
3. Turn the Key to the RUN  position.
4. Pull the Recoil Handle slowly, until you feel resistance; then pull the Handle with a rapid, full arm stroke to overcome compression and start the Engine (**Figure 29**). Repeat if necessary.

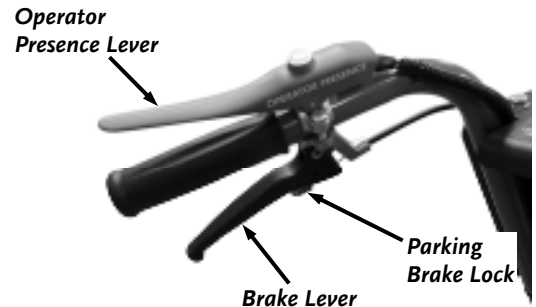


Figure 27

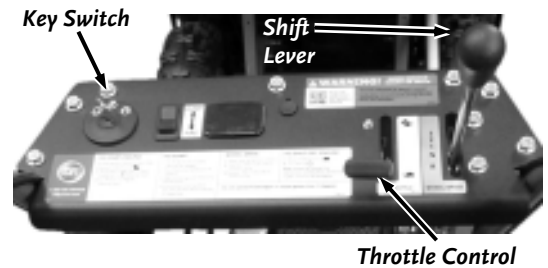


Figure 28



Figure 29

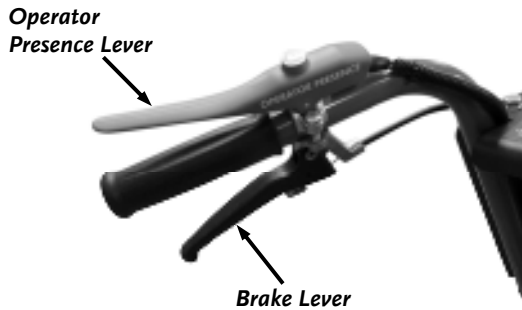


Figure 30

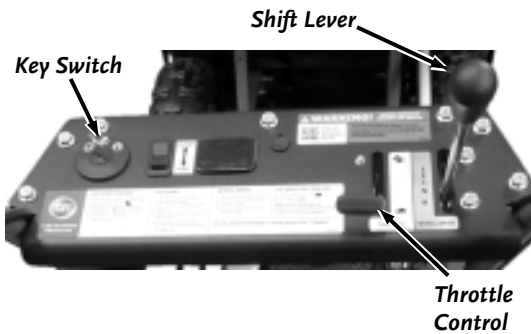


Figure 31

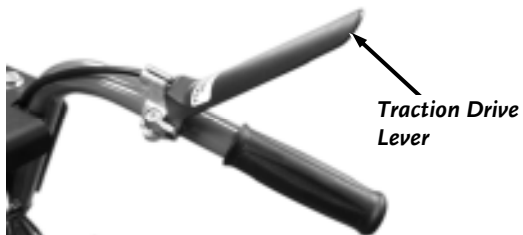


Figure 32

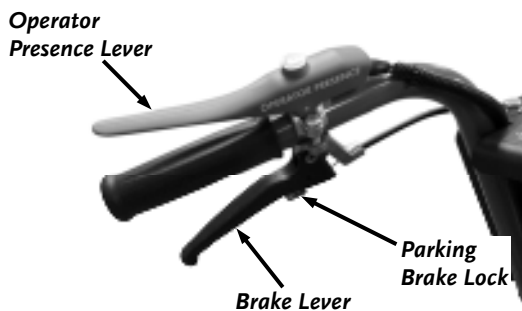


Figure 33

Operating

The DR POWERWAGON has a three-speed forward transmission and single-speed reverse. Use the lower gears for slower speeds, heavy loads, or more power, and the higher gears for transport over smooth terrain. Use 1st gear with loads over 300 lbs and on slopes. Never use your machine on slopes greater than 15°.

1. After the Engine is started, release the Parking Brake by squeezing and releasing the Brake Lever (**Figure 30**).
2. Hold down the Operator Presence Lever.
3. Move the Shift Lever to the desired gear (**Figure 31**).

NOTICE



Always release the Traction Drive Lever when shifting to avoid damaging the gears.

4. Squeeze the Traction Drive Lever on the right side Handlebar slowly until the machine moves in the desired direction (**Figure 32**).

WARNING

- Squeezing the throttle fast will make the DR POWERWAGON "jump" into motion. Squeeze the throttle slowly and ease the machine into gear.
- When engaging reverse, use extra caution. Check your path and footing before engaging the clutch.

Stopping

1. Release the Traction Drive Lever (**Figure 32**).
2. Shift to the NEUTRAL **N** position (**Figure 31**).
3. Release the Operator Presence Lever (**Figure 33**).
4. Set the Parking Brake by squeezing the Parking Brake Lever on the left side Handlebar and lifting the Parking Brake Lock.
5. Move the Throttle Control Lever to the SLOW  position (**Figure 31**).
6. Turn the Key to the STOP  position and remove it for safety.

NOTICE

In an emergency situation, releasing the operator presence lever will stop the machine. After the machine stops, follow steps 1, 2 and 4 thru 6 above).

WARNING

Always set the parking brake when your machine is stopped.

Operating Tips

- Avoid abrupt start-ups. Always squeeze the throttle slowly to avoid bucking, or tipping the DR POWERWAGON.
- When using reverse, check to see that there are no obstacles behind you. Practice backing up in an open area with no load in the DR POWERWAGON.

Loading

⚠ WARNING

- The recommended maximum load limit for the DR POWERWAGON is 500 lbs (Premier), 700 lbs (Pro) or 800 lbs (Pro-XL). Never operate on slopes greater than 15°. Placing more weight in the bed may be dangerous to the operator and can permanently damage the unit.
- Be careful when transporting heavy loads with your DR POWERWAGON. If the brake is applied suddenly, the load may shift and the wagon may start to tip forward. Brake slowly and try to avoid overloading the wagon.
- When loading your DR POWERWAGON keep in mind the bulk and weight of what you will be hauling and the terrain you will be crossing.
- Keep the load balanced and secured. Always distribute the load evenly so your DR POWERWAGON will be as stable as possible.
- Do not pile material too high. Divide your load and make several lighter trips. Do not pile heavy loads, such as rocks or gravel, to a height that will make the DR POWERWAGON top-heavy and susceptible to tipping over.
- Be careful going downhill and applying the brake. Shift into 1st gear before going down a slope. Squeeze the brake very slowly to avoid dumping the load.

Slopes and Uneven Terrain

⚠ WARNING

When operating over uneven terrain and slopes, use extreme caution to ensure solid and firm footing. Move slowly if the ground is rough, especially with a full load. Use 1st gear on slopes. Never operate on slopes greater than 15°.

- Never operate the DR POWERWAGON on slopes greater than 15 degrees (**Figure 34**). This is for safety and proper Engine operation. Doing so could deprive the Engine of oil and cause it to overheat resulting in component damage.
- **USE CAUTION:** The DR POWERWAGON may become unstable when moving over ruts, bumps, and other depressions.
- When going down a slope, shift into 1st gear before starting down. Never shift in the middle of a slope. Find as level a spot as possible and set the parking brake before shifting.
- On a slope, a heavy load will tend to shift. When using your DR POWERWAGON, keep in mind that loads tend to shift to the downhill side of the body. Secure your load in the Bed to limit the shifting of the load on slopes. The higher and heavier the load, the greater the chance of tipping over the DR POWERWAGON. Travel up and down slopes. Avoid going across slopes.
- Again, be especially careful with full loads. A good rule of thumb: the steeper the hill, the lighter and lower your load should be.
- When going downhill, keep a firm grip on the Handlebars and push down slightly. Do not apply the Parking Brake abruptly when going downhill with a heavy load or the DR POWERWAGON may pitch forward onto its front end.

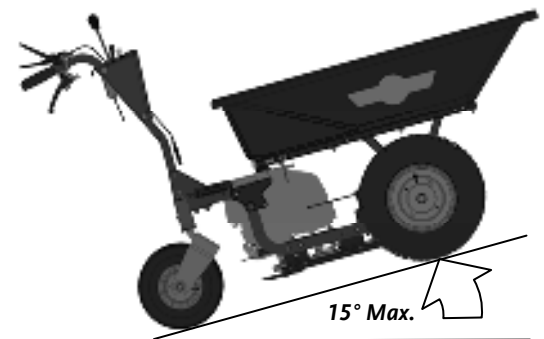


Figure 34

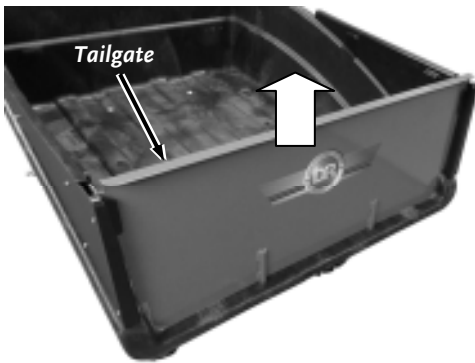


Figure 35

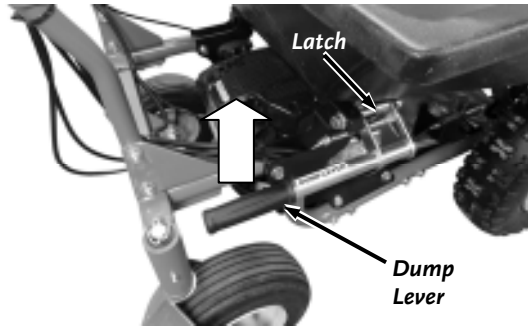


Figure 36

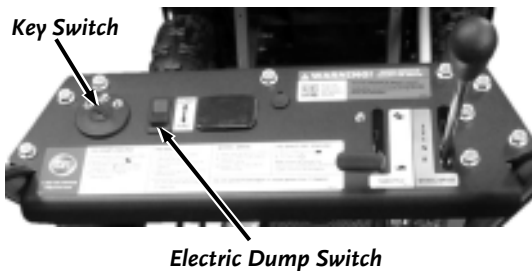


Figure 37

Unloading the Bed

Dumping – Manually

Note: For safety reasons, the DR POWERWAGON Bed is designed NOT to dump automatically once you release the Dump Lever. You must pull the Dump Handle up to lift the back of the Bed to cause it to tip forward.


1. Shift the machine to Neutral and set the Parking Brake.
2. Remove the Tailgate (Pro Model only) (**Figure 35**).
3. Stand at the right rear of the Bed.
4. Pull up on the Handle of the Dump Lever to dump the load (**Figure 36**).
5. After unloading, push the Bed back down into place by hand. Be sure the Dump Lever latches securely.

Note: The Bed of the DR POWERWAGON is balanced so you can dump the load with minimal effort. If you are carrying a very heavy load, you may not be able to lift the Bed to dump it when you release the Latch Lever. In this case, you will need to manually remove part of the load from the back of the Bed, until the load is light enough to allow the Bed to tip forward when you lift up on the back of it.

Electric Dump System – Pro-XL Model

The Electric Dump System brings new conveniences to the function of your DR POWERWAGON. We have included some operating hints and precautions. Please review them carefully.

Operating the Electric Dump

1. Shift the machine to Neutral and set the Parking Brake.
2. Remove the Tailgate.
3. If the Engine is Off, turn the Key to the RUN  position.
4. Hold the Electric Dump Switch in the upper “DUMP” position, to raise the Bed to empty it (**Figure 37**).
5. Hold Power Dump Switch down in the lower “FLAT” position, to lower the Bed.

Operating Hints

- The Electric Dump System allows the Bed to be stopped and positioned anywhere in the tipping range. Emptying loose material and depositing solid loads in a more precise way.
- The Electric Dump System also makes it possible to distribute loose materials over an area rather than in a concentrated pile for distribution later. With the Bed partially tipped, you can move your DRPOWERWAGON in reverse while the material flows from the front of the Bed. This is especially helpful in road maintenance and similar work.
- Make certain you are familiar with the terrain where you intend to work and anticipate the effect that load changes in the Dump Bed might have upon operating factors. Review your *Safety & Operating Instructions* Manual carefully for safe procedures.

Chapter 4: Maintaining The DR POWERWAGON

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

WARNING

When performing any maintenance, you must first shut off the engine, set the parking brake, wait five minutes to allow parts to cool and disconnect the spark plug wire, keeping it away from the spark plug.

Regular Maintenance Checklist

PROCEDURE	BEFORE EACH USE	EVERY 25 HOURS	EVERY 100 HOURS
Check Operator Presence Lever	▲		
Check Engine Oil Level	▲		
Check General Equipment Condition	▲		
Check Tire Pressure	▲		
Lubricate Caster Wheel Grease Fittings		▲	
Clean Air Filter & Pre-cleaner		▲	
Change Engine Oil (8.75 Engines Only)	1 st time 5 hours	▲	
Check Parking Brake Adjustment		▲	
Check Belt Tension & Condition		▲	
Check Cable Connections		▲	
Clean Engine Exterior & Cooling Fins		▲	
Replace Spark Plug			▲
Replace Air Filter & Pre-cleaner			▲

Battery Care (For Electric-Starting models)

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.
- Under normal work conditions, the Battery will not need special attention with the addition of the Electric Dump System. If you are operating for extended periods with frequent dumps, it might be best to leave the Engine running during stand still periods to maintain proper charge levels.

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.

Note: Using the Recoil Starter and then running the Engine will not recharge a dead or significantly discharged Battery.

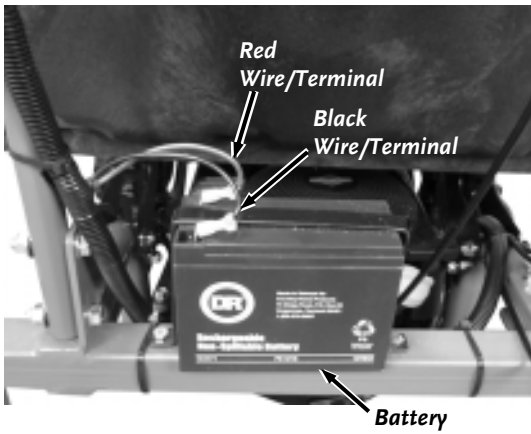


Figure 38

To connect a battery charger to your DR POWERWAGON, follow the steps listed below.

1. Detach the two Battery wires from your Battery (**Figure 38**).
2. Attach the red (+) Battery Charger Wire to the red (+) Battery terminal, and the black (-) Battery Charger Wire to the black (-) Battery terminal.
3. Plug the Battery Charger into an outlet.

NOTICE

When you are finished charging the Battery, disconnect the Battery Charger from the outlet first, then disconnect the Charger wires from the Battery Terminals. If the Battery Charger Wires are left connected to the Battery, the Battery will discharge itself back into the Charger.

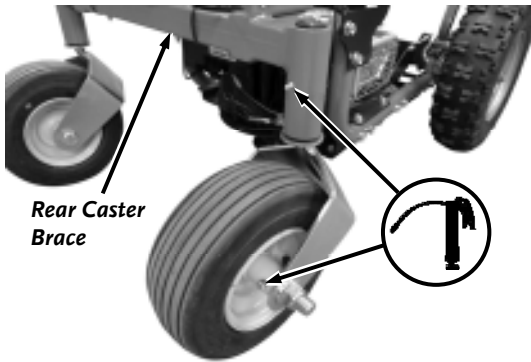


Figure 39

Lubrication

Your DR POWERWAGON was lubricated at the Factory. The transaxle is factory sealed and lubricated for life. The operator must provide engine, Caster wheel, Key Switch and cable lubrication.

CASTER WHEEL LUBRICATION

Supplies Needed:

- Grease Gun with #2 Lithium Grease

1. There are four Grease Fittings for the Caster Wheels: One at the right and left side of the Rear Caster Brace, and one on each Wheel Hub (**Figure 39**). Grease these four Fittings with #2 lithium grease, to keep the Wheel spinning freely, at least every 25 hours of operation.

CABLE LUBRICATION

Supplies Needed:

- SAE 30 Oil
- #2 Lithium Grease

1. Using SAE 30 Oil, lubricate the end of the Cables at the Handlebars and Control Panel (**Figure 40**) and where the other ends connect to the machine (**Figure 41**). Operate the Levers to work lubricant into the Cables.

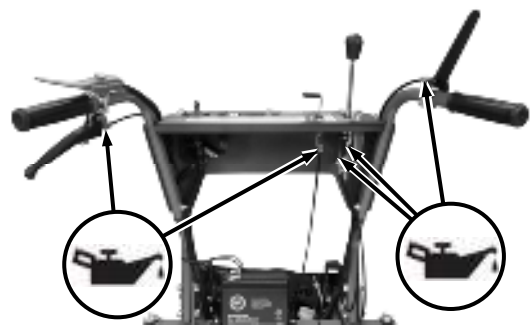


Figure 40

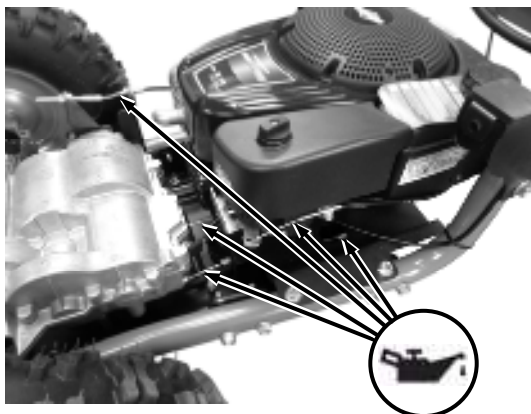


Figure 41

ENGINE OIL CHECK AND REPLACE

The Briggs and Stratton 6.75 and 7.25 are “Just Check and Add” Engines. After you have added oil as described in Chapter 2, you are not required to change the Oil in the 6.75 and 7.25 Engines. The 8.75 however will need the Oil changed as scheduled in the “Regular Maintenance Checklist” at the beginning of this Chapter.

See your Engine Operator manual for more detailed information.

6.75 and 7.25 Engines (Check and Add):

Supplies needed:

- SAE 30 High Detergent (HD) Oil (for winter use, use SAE 5W – 30W)
- Clean Rag

1. Lift the Bed to the fully upright position (**Figure 42**).
2. Remove the Oil Dipstick/Fill Cap and wipe it off with a clean Rag.
3. Replace the Oil Dipstick/Fill Cap and screw it in, remove the Dipstick and check the Oil level.
4. If the level is low, add oil as needed.
5. Replace the Oil Dipstick/Fill Cap when finished.

8.75 Engines (Replace Oil):

Tools and Supplies needed:

- 3/8" Drive Ratchet
- SAE 30 High Detergent (HD) Oil (for winter use, use SAE 5W – 30W)
- Rag
- Approved Oil Drain Pan

1. Lift the Bed to the fully upright position (**Figure 42**).
2. Place an approved Oil Drain Pan under the Engine Oil Drain Plug at the rear of the machine (**Figure 43**).
3. Using a 3/8" Drive Ratchet, remove the Oil Drain Plug from the bottom of the Engine and drain the oil into the Pan.
4. Replace the Plug and refill the oil to as described in “Adding Oil and Gasoline” in Chapter 2.

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

Alternate Method

Tools and Supplies needed:

- SAE 30 High Detergent (HD) Oil (for winter use, use SAE 5W – 30W)
- Rag
- Liquid Vac Oil Drainer, item #16145 (optional accessory, available at DR Power Equipment)

1. Lift the Bed to the fully upright position (**Figure 42**).
2. Remove the Oil Dipstick/Fill Cap and vacuum the oil from the Engine through the Dipstick Tube using the recommended oil drainer.
3. Replace the oil as described in “Adding Oil and Gasoline” in Chapter 2.



Figure 42

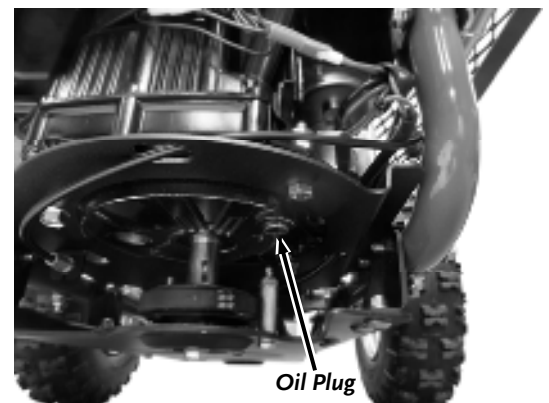


Figure 43



Figure 44

Removing and Replacing the Belt

Tools needed:

- Two Jack Stands
- Flat Head Screwdriver
- 9/16" Socket with Ratchet and Extension
- Pliers

NOTICE

Use only DR belts on your machine. They have been thoroughly tested and proven for many hours of use.

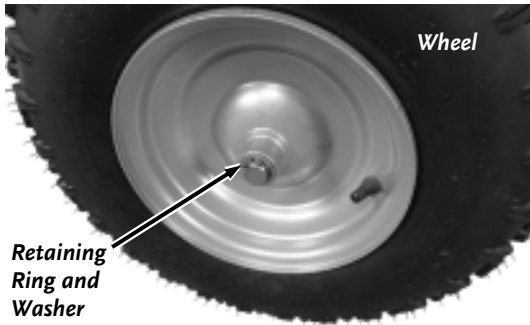


Figure 45

1. Position the machine on a level surface and support the front of the Frame with Jack Stands to lift the Wheels off the ground (**Figure 44**).

Note: Ensure that the Jack Stands are not touching the Wheels.

2. Remove the Retaining Ring and Washer of both Wheels with a Flat Head Screwdriver and remove the Wheels (**Figure 45**).
3. Tip the Bed forward for better access.
4. Remove the twelve (six per side) Skid Plate Bolts at the sides of the Frame using a 9/16" Socket with Ratchet and Extension (**Figure 46**).

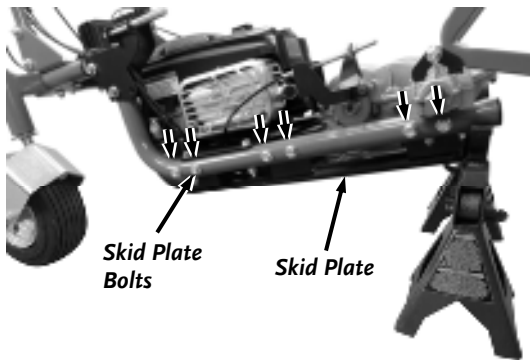


Figure 46

5. Remove the Skid Plate from the machine.
6. Remove the Belt from the Engine, Idler/Tensioner and Transaxle Pulleys (**Figure 47**).
7. Install the new Belt on the Engine and Transaxle Pulleys.
8. Route the Belt between the Idler/Tensioner Pulleys as shown.
9. Reinstall the Skid Plate making sure that the Belt is on the inside of all Belt Guides (**Figure 48**).
10. Reinstall the Wheels, making sure that the key is in position on the Transaxle shafts.

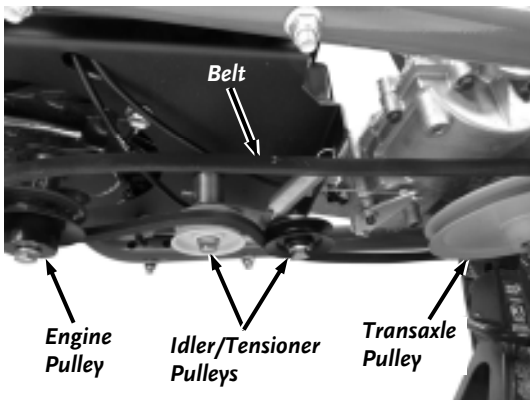


Figure 47

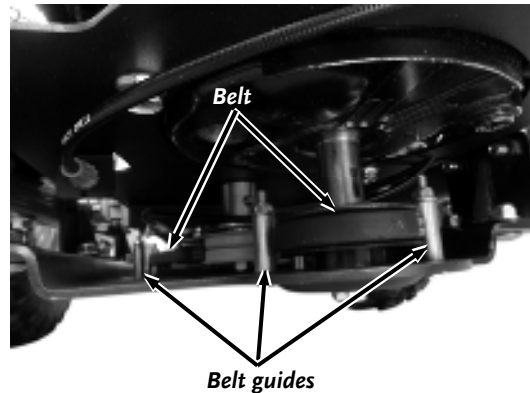


Figure 48

Removing and Replacing the Front Wheels

Tools needed:

- Blade Screwdriver
- Eye protection
- Jack Stands
- Pliers

1. Block the machine up off the ground so that the Front Wheels spin freely (**Figure 49**).
2. Pry off the Wheel Lock Ring with a Screwdriver (**Figure 50**). Remove the Washer and slide the Wheel off the Axle. Check the Axle to ensure the Key stayed in the Axle.
3. To replace the Wheel, align the groove in the Wheel Hub to the Key and slide the Wheel onto the Axle.
4. Reinstall the Washer and Wheel Retaining Ring.

Tip: Pliers may work better to seat the Retaining Ring.

Checking and Adjusting the Brakes

The Brakes are adjusted at the Factory but may need adjustment over time due to Brake Pads wearing down. The Brakes can be adjusted at the Brake Arm Adjustment Nut as well as the Brake Cable Jam Nuts. This section explains both methods of adjusting your Brakes.

Tools needed:

- Two 1/2" Wrenches

CHECKING THE BRAKES:

1. With the machine on a level surface, set the Parking Brake.
2. Move the Shift Lever to the NEUTRAL **N** position.
3. Test the Brakes by trying to roll the machine. It should not move in either direction with the Parking Brake set. If it does move, continue to "BRAKE ARM ADJUSTMENT". If it doesn't move, your Brakes are properly adjusted.

BRAKE ARM ADJUSTMENT:

If this adjustment method doesn't make a difference after a couple of adjustments, continue to "BRAKE CABLE ADJUSTMENT".

1. Turn the Adjustment Nut on the Brake Arm 1/4 turn clockwise with a 1/2" Wrench to tighten the Brakes (**Figure 51**).
2. Test the Brake as described "CHECKING THE BRAKES" above. Repeat the adjustment as needed until the Brake works properly.

BRAKE CABLE ADJUSTMENT:

If this adjustment method doesn't improve braking after a couple of adjustments, continue to "CHANGING THE BRAKE PADS".

1. Turn the inside Jam Nut a full turn away from the Brake Arm (**Figure 51**).
2. Turn the outside Jam Nut against the Brake Arm and inside Jam Nut.
3. Test the Brakes as described "CHECKING THE BRAKES" above. Repeat the adjustment as needed until the Brake works properly.

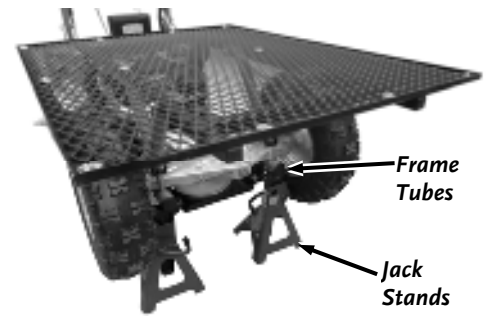


Figure 49

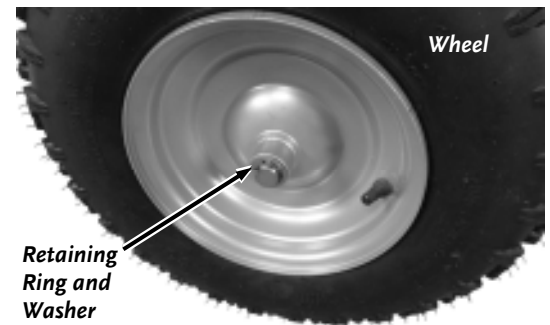


Figure 50

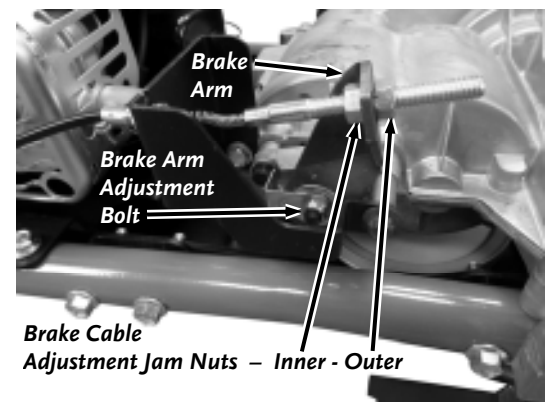


Figure 51

PARKING BRAKE ADJUSTMENT:

You must ensure the Parking Brake Lock works properly whenever the Brakes are adjusted. If the Brakes are adjusted too tight the Lever will not squeeze tight enough to the Handle and the lock will not engage or it will engage and is extremely difficult to disengage.

Perform the previous BRAKE CABLE ADJUSTMENT and/or the BRAKE ARM ADJUSTMENT in the opposite direction than described to loosen the Brake Cable.

Note: Turn the Adjustment Nuts only 1/4 turn at a time, and then test the Parking Brake Lock to see if the adjustment worked.

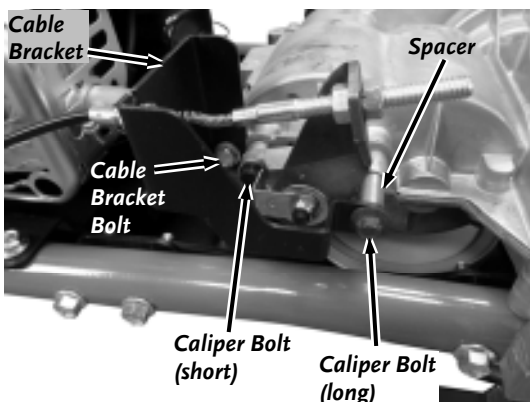


Figure 52

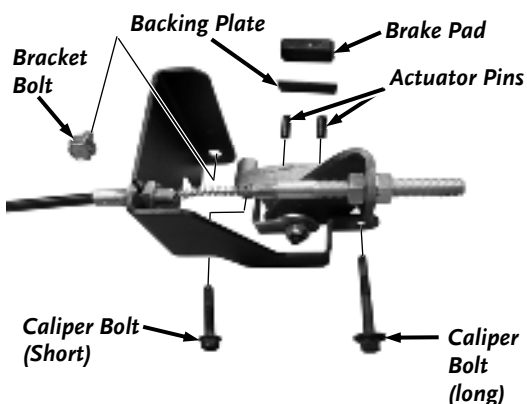


Figure 53

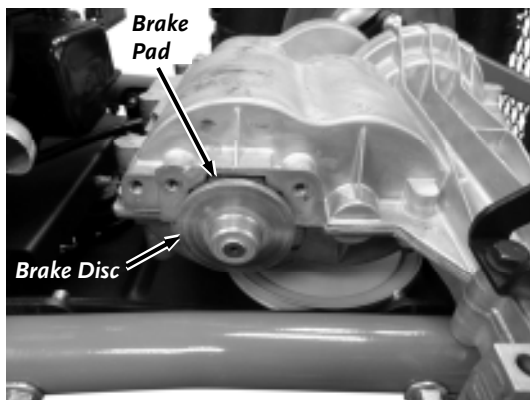


Figure 54

Changing the Parking Brake Pads

Note: If your DR POWERWAGON rolls on slopes when the Parking Brake is set, and you have tried adjusting the Brakes, the Brake Pads may need replacement.

Tools and Supplies needed:

- 3/8" Socket with Ratchet and Extension
- 1/2" Socket with Ratchet and Extension
- Lithium Grease
- Clean Mat or container for loose parts

Note: You may want to remove the Wheel to provide easier access to the Brake Caliper area. See "Removing and Replacing the Front Wheels" in this Chapter.

1. Find a clean level area to work. The Parking Brake should NOT be engaged. Chock the Wheels so the machine cannot move.
2. Locate the Brake Caliper at the right/front of the machine (Figure 52).
3. Remove the Cable Bracket Bolt using a 1/2" Socket with a Ratchet and Extension.
4. Remove the long Caliper Bolt with a 3/8" Wrench and remove the Spacer from the Transaxle.
5. Remove the short Caliper Bolt with a 3/8" Wrench and remove the Caliper from the Transaxle.
6. Pull the Brake Disc off the splined Shaft and remove the Brake Pad (Figure 54).
7. Insert a new Brake Pad into the cavity and hold in place as you reinstall the Brake Disc.
8. Lightly grease the Actuator Pins with Lithium Grease and insert the Pins into the Caliper (Figure 53).
9. Insert the Backing Plate with new Brake Pad and position the Caliper onto the Transaxle.
10. Secure the Caliper and Cable Bracket in the reverse order of disassembly.

Note: After new Brake Pads have been installed you will need to perform the "Checking and Adjusting the Brakes" procedures to compensate for the thicker Pads.

Adjusting the Traction Drive Cable

When properly adjusted, tension on the Traction Drive Lever should increase when the Lever is about parallel to (almost touching) the Handlebar Grip. If it does not, perform the following steps.

1. Locate the In-Line Adjuster on the Traction Drive Cable along the right Handlebar (**Figure 55**).
2. Rotate the center portion clockwise while holding the ends stationary to expand the In-Line Adjuster and remove slack from the cable.

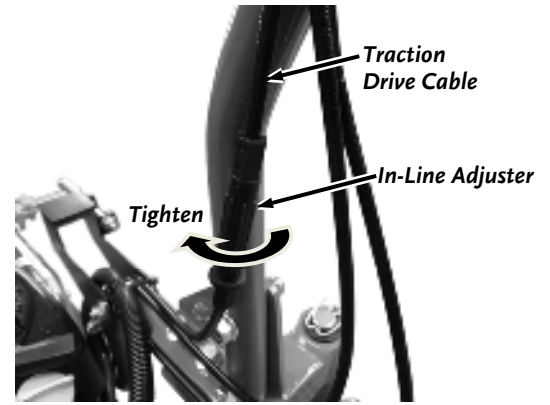


Figure 55

Adjusting the Shift Cables

If there is a lot of “play” in the Wheel Speed Lever or if the lever is no longer aligned with the Wheel Speed Label, you may need to adjust the Shift Cables as follows.

Tools needed:

- Two 13mm Wrenches

1. Locate the Shift Cable Adjustment Nuts on the Shift Lever end of the cable (**Figure 56**).
2. Loosen the top Cable Jam Nut one of the cables using two 13mm Wrenches.
3. Pull down slightly on the cable Sheathing, just enough to pull out the slack in the Cable and then tighten the bottom Cable Adjustment Nut against the Bracket. Retighten the top Nut against the Bracket and bottom Nut using two 13mm Wrenches. You may need to tension one cable while loosening the other to realign the Lever.

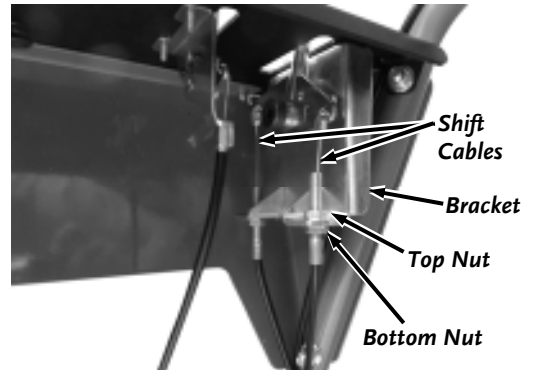


Figure 56

Note: Do not over tighten the cable. It will create a spongy feel in the shift lever if it is too tight.

Pro-XL Dump Actuator Maintenance

For the Electric Dump System, the dump actuator is a sealed unit that does not need servicing under normal use.

Chapter 5: Troubleshooting

Most problems are easy to fix. Consult the Troubleshooting Table below for common problems and their solutions. If you continue to experience problems, contact us at www.DRpower.com or call toll-free 1-800-DR-OWNER (376-9637) for support.

WARNING

When performing any maintenance, you must first shut off the engine, set the parking brake, wait five minutes to allow parts to cool and disconnect the spark plug wire, keeping it away from the spark plug.

Troubleshooting Table

SYMPTOM	POSSIBLE CAUSE
<i>Recoil will not pull out or is difficult to pull.</i>	<ul style="list-style-type: none"> ⇒ Check the Engine oil level; the Engine may be seized. ⇒ There may be an oil compression lock in the cylinder. Take out the Spark Plug; hold a rag over the Spark Plug hole and pull the Recoil Cord several times to blow out any oil in the cylinder. Wipe off the Spark Plug and reinstall it.
<p><i>The Engine will not start manually.</i></p> <p><i>(Please refer to the Engine Owner's Manual for Engine-specific procedures.)</i></p>	<ul style="list-style-type: none"> ⇒ Check that the Key is in the RUN Position. ⇒ Check that the Spark Plug wire is attached. ⇒ Check the Operator Presence Switch connection beneath the Panel at the Key Switch. ⇒ Check the Operator Presence Switch connection at the Engine. ⇒ Check the oil and gas level. See "Adding Oil and Gasoline" on page 14. ⇒ The gas may be old, change it. Use a fuel stabilizer if you keep gas longer than one month. ⇒ Check the Throttle adjustment and travel. ⇒ The Spark Plug may be dirty or cracked, change it. ⇒ If the Spark Plug is oily, leave it out, hold a rag over the Plug hole and pull the Recoil cord several times to blow out any oil in the cylinder, then wipe off the Plug and reinsert it. ⇒ The Air Filter may be dirty, change it following the procedure in the Engine Owner's Manual. ⇒ If your Engine still won't start, contact us at www.DRpower.com.
<p><i>The Engine will not start using Electric-Start.</i></p> <p><i>(Please refer to the Engine Owner's Manual for Engine-specific procedures.)</i></p>	<ul style="list-style-type: none"> ⇒ Check all the items under the section "Electric-Starting" on page 17. ⇒ Check the previous section (The Engine will not start manually.) for possible causes. ⇒ Check the wire connections—especially the ground connection, the large black 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 21. ⇒ If the Battery is charged and your DR POWERWAGON still will not start, contact us at www.DRpower.com.
<i>Engine smokes.</i>	<ul style="list-style-type: none"> ⇒ Check the oil level and adjust as needed. ⇒ You may be operating the machine on too great an incline. See the "Slopes and Uneven Terrain" section on page 19. ⇒ Check the Air Filter and clean or replace if needed. ⇒ You may be using the wrong oil—too light for the temperature. Refer to the Engine Owner's Manual for detailed information. ⇒ Clean the Engine cooling fins and the carburetor housing if they are dirty. ⇒ If the Engine still smokes, contact us at www.DRpower.com.

⚠ WARNING

When performing any maintenance, you must first shut off the engine, set the parking brake, wait five (5) minutes to allow parts to cool and disconnect the spark plug wire, keeping it away from the spark plug.

Troubleshooting Table (Continued)

SYMPTOM	POSSIBLE CAUSE
<i>The Engine lacks power or is not running smoothly. (Please refer to the Engine Owner's Manual for Engine-specific procedures.)</i>	<ul style="list-style-type: none">⇒ Check the Throttle travel and adjustment.⇒ The Air Filter may be dirty, change it following the procedure in the Engine Owner's Manual.⇒ The Spark Plug may be dirty or cracked, change it.⇒ If the Spark Plug is oily, leave it out, hold a rag over the Plug hole and pull the Recoil cord several times to blow out any oil in the cylinder, then wipe off the Plug and reinsert it.⇒ The gas may be 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 (8.75 Engines only) following the procedure on page 23.⇒ If the Engine still lacks power, contact us at www.DRpower.com.
<i>Machine is hard to get into Reverse.</i>	<ul style="list-style-type: none">⇒ The Shift Lever may need adjusting. See page 27.
<i>Wheels pulling left or right.</i>	<ul style="list-style-type: none">⇒ Check the tire(s) pressure. See page 14.
<i>Machine lacks traction.</i>	<ul style="list-style-type: none">⇒ The load may be uneven in the Bed. The more weight over the Wheels the better the traction.⇒ Try a lower gear.⇒ If you are working on rough terrain you may want to consider the Tire Chain Kit. Call 1-800-DR-OWNER (376-9637) for information.
<i>The Wheels will not turn.</i>	<ul style="list-style-type: none">⇒ Make sure that the DR POWERWAGON is in gear.⇒ Check that the Parking Brake is off.⇒ The Drive Belt may be loose or off the Pulley. See page 24.⇒ The Drive Belt may be on the wrong side of the Pulley. See page 24.⇒ If the Wheels still will not turn, call 1-800-DR-OWNER (376-9637) for assistance.
<i>The Electric Dump System is not responding.</i>	<ul style="list-style-type: none">⇒ There is a Fuse under the Control Panel. Check the Fuse and replace if needed.⇒ Check for loose electrical connections.⇒ Check to be sure the Key Switch is in the RUN position to operate the Electric Dump System. See page 20.⇒ Check the Battery charge. If the Key activates the Starter, the Battery is sufficiently charged. If it does not start the Engine, charge the Battery and repeat.⇒ If the Electric Dump System still will not respond, call 1-800-DR-OWNER (376-9637) for assistance.
<i>The Dump Bed stops with the Switch Button depressed.</i>	<ul style="list-style-type: none">⇒ Release the Switch and try the opposite direction. If the Dump Bed moves, check the area beneath the Dump Bed for obstructions.⇒ If the Dump Bed does not move in the opposite direction, check the Battery and connections as above.⇒ If the Dump Bed still stops, call 1-800-DR-OWNER (376-9637) for assistance.

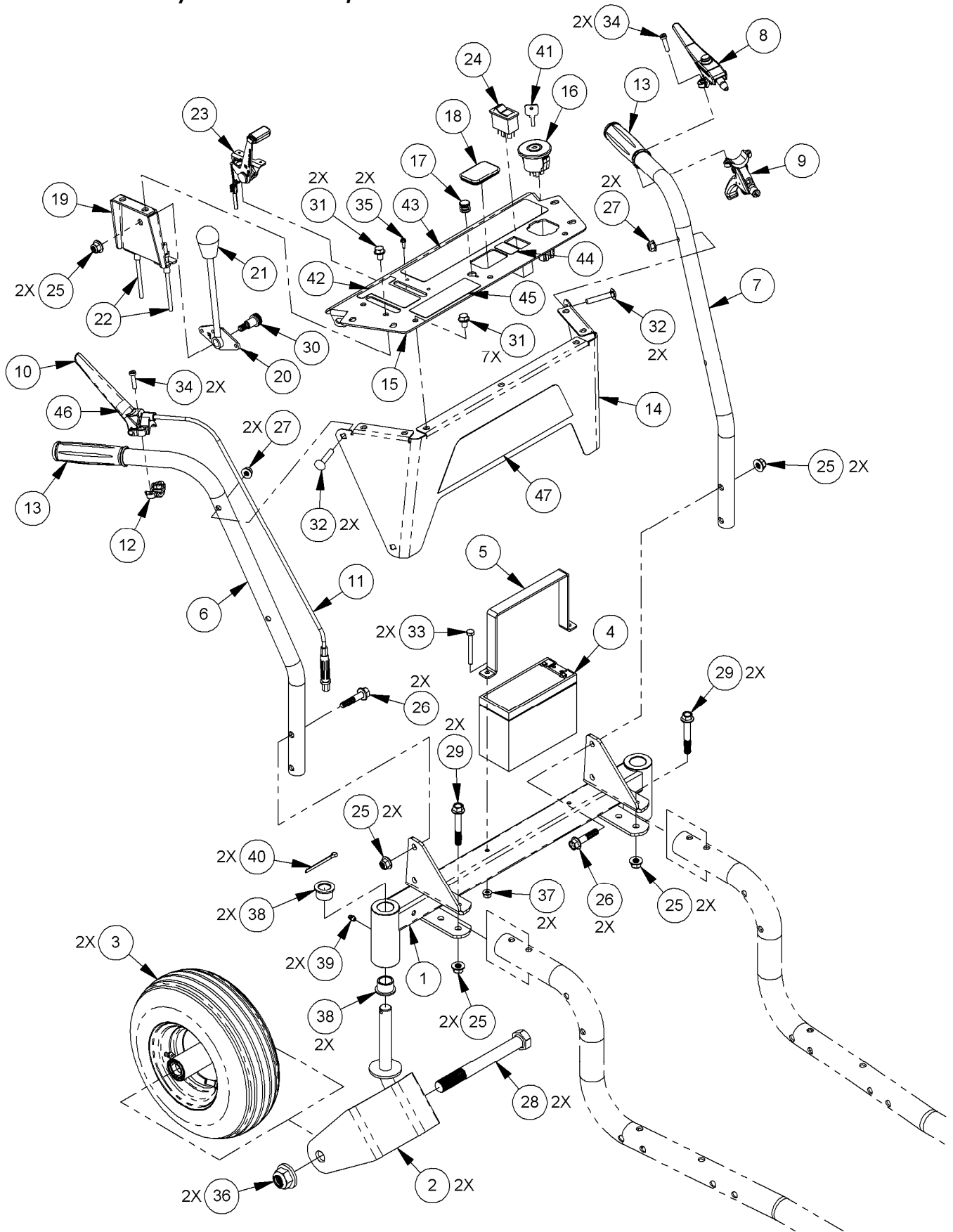
Chapter 6: Parts Lists and Schematic Diagrams

Parts List - Handlebar/Controls Assembly

Note: Part numbers listed are available through DR Power Equipment. Not all parts appear on all diagrams.

Ref#	Part#	Description	Ref#	Part#	Description
1	37919	Brace, Rear, Casters	25	33333	Nut, Nylon Lock, Flanged, 3/8-16
2	37920	Caster, Rear	26	38596	Bolt, Hex, Flange, 3/8-16 X 1-3/4", GR5, ZP
3	38541	Wheel, 11 - 4 X 5, Rib, 3/4 Bb X 5" Sym	27	33332	Nut, Nylon Lock, Flanged, 5/16-18
4	13447	Battery, 12v, 9ah	28	34324	Bolt, HCS, 3/4-10 X 7", ZP
5	24230	Strap, Battery	29	33348	Bolt, Hex, Flange, 3/8-16 X 2.5"
6	37921	Handlebar, Right	30	35290	Bolt Shoulder, 1/2" X 5/8"L, 3/8-16
7	37922	Handlebar, Left	31	11173	Bolt, HCS, Serrated Flange 5/16-18 X .50"
8	18069	Lever, Op Presence W/ Harness	32	35033	Bolt, Carr, 5/16-18 X 1.75", GR5, ZP
9	30297	Lever, Brake, W/O Hardware	33	31306	Bolt, HCS, 1/4-20 X 2-1/4", GR5, ZP
10	39116	Lever, Cable, Black, Traction Drive, With Labels	34	17923	Screw, SHCS M6 X 25mm
11	38515	Cable, Drive	35	15049	Screw 8-32 X 1/2"
12	37051	Collar, Lever, 1", Threaded	36	33338	Nut, Nylon Lock, Flanged, 3/4-10
13	16496	Grip, 1.00"	37	33331	Nut, Nylon Lock, Flanged, 1/4-20
14	38577	Control Panel, With Labels	38	12376	Bushing .766"ID 1.0"OD
15	38576	Control Panel, Top Plate, With Labels (Premier and Pro Models)	39	10189	Grease Fitting, 1/4-28, Straight
	38575	Control Panel, Top Plate, With Labels (Pro-XL Model)	40	18655	Pin, Cotter, 3/16" X 2"
16	16520	Switch, Snap-In, M/S	41	15720	Key, Ignition Switch
	22223	Switch, Snap-In, E/S	42	38553	Label, Throttle, Wheel Speed
17	19003	Plug, Plastic, 1/2" Hole	43	38554	Label, Operator Instructions
18	15131	Plug, Hour Meter Hole, 2" X 1-1/4"	44	38555	Label, Power Dump (Pro-XL Only)
19	35107	Mount, Lever, Shift	45	38552	Label, Warning & QR Code
20	35106	Lever, Shift	46	37055	Label, Traction Drive
21	15036	Knob, PTO Clutch Cable	47	38557	Label, Branding, Console
22	37939	Cable, Shift	<u>Not Illustrated</u>		
23	38546	Cable, Throttle, 40" L		38548	Wire Harness, ES
24	38549	Wire Harness, Actuator (Pro-XL Only)		38550	Wire Harness, M/S
				38583	Plug, Control Panel, Actuator Switch Cutout (Premier and Pro Models Only)

Schematic - Handlebar/Controls Assembly



Parts List - Drive Assembly

Note: Part numbers listed are available through DR Power Equipment. Not all parts appear on all diagrams.

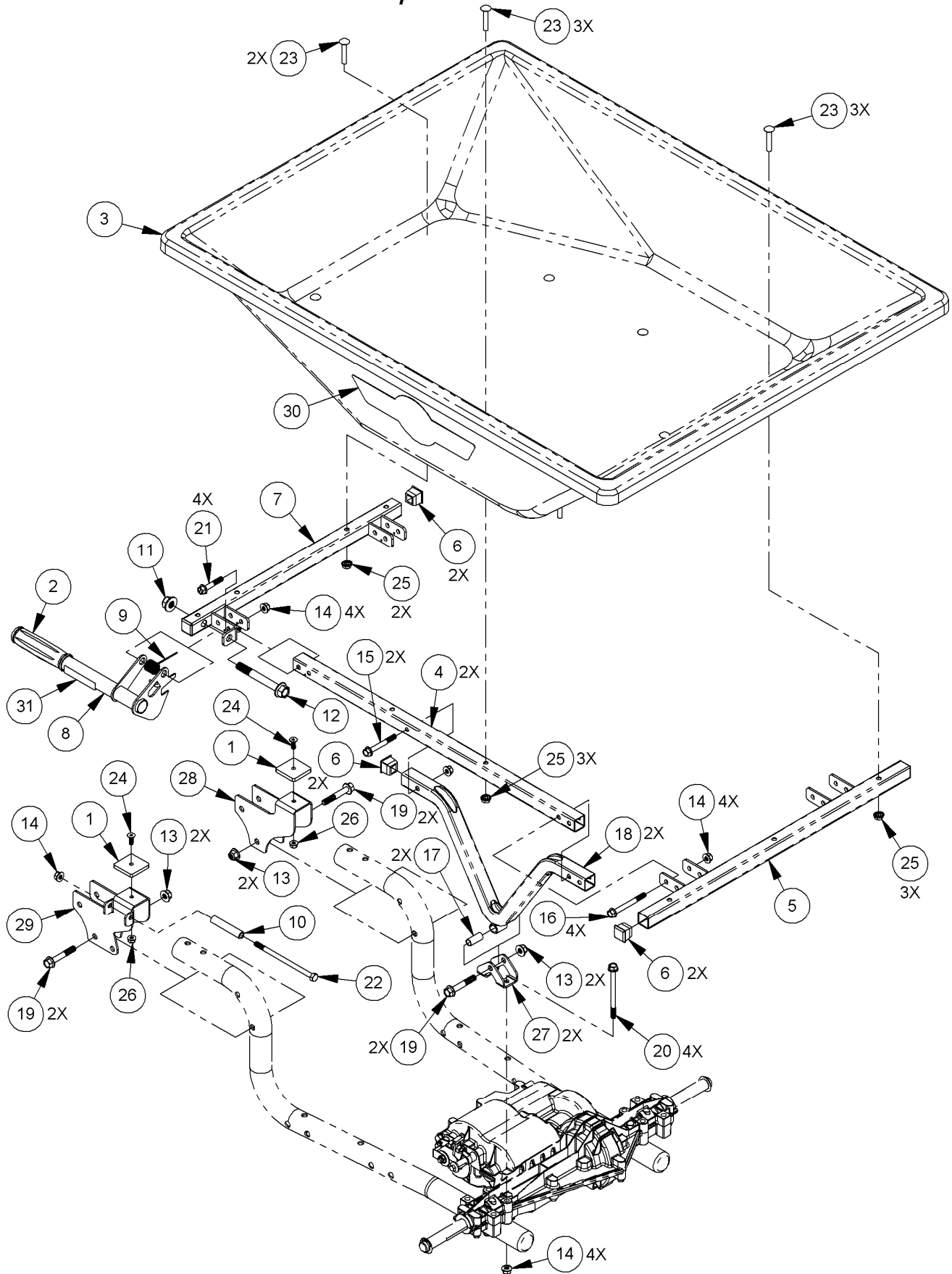
<u>Ref#</u>	<u>Part#</u>	<u>Description</u>	<u>Ref#</u>	<u>Part#</u>	<u>Description</u>
1	37913	Tube, Frame, Right	23	34407	Bolt, Hex, Flange, 3/8-16 X 1.5", GR5, ZP
2	37914	Tube, Frame, Left	24	35281	Bolt, Hex, Flange, Tri Lobe, 3/8-16 X 3/4", GR5 ZP
3	37909	Bracket, Angle, Skid Plate	25	11155	Bolt, HHCS 3/8-24 X .75", GR.2, ZP
4	38567	Plug, 1-1/2" OD, 12 GA Tube	26	38592	Bolt, Carr, 3/8-16 X .75", GR5, ZP
5	35145	Bracket, Shift, Transmission	27	11173	Bolt, HCS, Serrated Flange 5/16-18 X .50"
6	37389	Transaxle, 3 Spd, W/ Brake	28	15045	Bolt, HCS, 5/16-18 X 1-3/4", GR5, ZP
7	35302	Wheel Assembly, Snow Hog, 4.8-8, Keyed Hub	29	11150	Bolt, SHCS, 1/4-18 X 3/4", Black Oxide
8	11114	Pulley, V, 7" OD 4l/A Belt	30	38591	Bolt, Carr, 1/4-20 X 2", GR5, ZP
9	37923	Arm, Idler	31	38945	Washer, Flat,.75" X 1.125" X .012"
10	37929	Bushing, Idler	32	11238	Washer, Flat, 1/4"
11	11307	Pulley, Flat Idler, 2-1/4"	33	11250	Washer Lock 1/4" External Tooth
12	14409	Pulley, V-Belt, 2.625" OD, Idler	34	11069	Nut, Hex, 5/16-18, GR2, ZP
13	35261	Spring, Extension	35	33331	Nut, Nylon Lock, Flanged, 1/4-20
14	38545	Belt, AP50	36	11124	Snap Ring, External, 5/8"
15	37915	Bushing, Belt Guide	37	11126	Ring, Retaining, 3/4" E-Clip
16	37900	Pulley, 2.75" OD, 7/8" Shaft, A Belt	38	10119	Key, Square, 3/16" X 2"
17	38578	Engine, B&S, 8.75 Pro, E/S, With Labels	39	37911	Plate, Skid
	38579	Engine B&S 7.25 EXI ES, W/Labels	40	37912	Mount, Engine
	38580	Engine B&S 6.75 EXI M/S, W/Labels	41	37930	Bracket, Brake
18	38547	Cable, Brake, 64" L	<u>Safety Labels</u>		
19	33333	Nut, Nylon Lock, Flanged, 3/8-16			
20	33332	Nut, Nylon Lock, Flanged, 5/16-18		13758	Label, Check Oil
21	34326	Bolt, Hex, Flange, Grade 8, 3/8-16 X 3"			
22	39086	Bolt, Hex, Flange, 3/8-16 X 2-1/4", GR8, ZP			

Parts List – Premier Bed and Frame Assembly

Note: Part numbers listed are available through DR Power Equipment. Not all parts appear on all diagrams.

<u>Ref#</u>	<u>Part#</u>	<u>Description</u>	<u>Ref#</u>	<u>Part#</u>	<u>Description</u>
1	38560	Bumper, Bed	17	10940	Bushing .395" ID X .500" OD
2	16496	Grip, 1.00	18	10877	Arm, Dump
3	39094	Premier Poly Bed, With Labels	19	39086	Bolt, Hex, Flange, 3/8-16 X 2-1/4", GR8, ZP
4	37918	Tube, Support, Poly Bed	20	38593	Bolt, Hex, Flange, 5/16-18 X 4", GR8, ZP
5	37927	Brace, Poly Bed	21	38599	Bolt, Hex, Flange, 5/16-18 X 1-3/4", GR5, ZP
6	11108	Plug, 1" X 1" OD, 16GA tube	22	38597	Bolt, HCS, 5/16-18 X 5-1/2", GR5, ZP
7	37925	Brace, Cartbed	23	35033	Bolt, Carr, 5/16-18 X 1.75", GR5, ZP
8	38572	Handle, Dump, With Labels	24	38594	Bolt, FHCS, 1/4-20 X .75", GR5, ZP
9	38540	Spring, Torsion, 360 Deg, .063" Wire, .798" OD	25	10668	Nut, Lock, Serrated Flange, 5/16-18
10	33805	Spacer, .327" ID X .51" OD X 2.69"	26	33331	Nut, Nylon Lock, Flanged, 1/4-20
11	33335	Nut, Nylon Lock, Flanged, 1/2-13	27	37910	Bracket, Hinge, Transaxle
12	33353	Bolt, Hex, Flange, 1/2-13 X 4", GR5	28	37928	Bracket, Bed Rest, Left
13	33333	Nut, Nylon Lock, Flanged, 3/8-16	29	38562	Bracket, Bed Rest, Right
14	33332	Nut, Nylon Lock, Flanged, 5/16-18	30	38563	Label, Branding, Bed
15	38598	Bolt, Hex, Flange, 5/16-18 X 2-1/2", GR8, ZP	31	15342	Label, Dump Lever
16	39085	Bolt, Hex, Flange, 5/16-18 X 3", GR8, ZP			

Schematic – Premier Bed and Frame Assembly

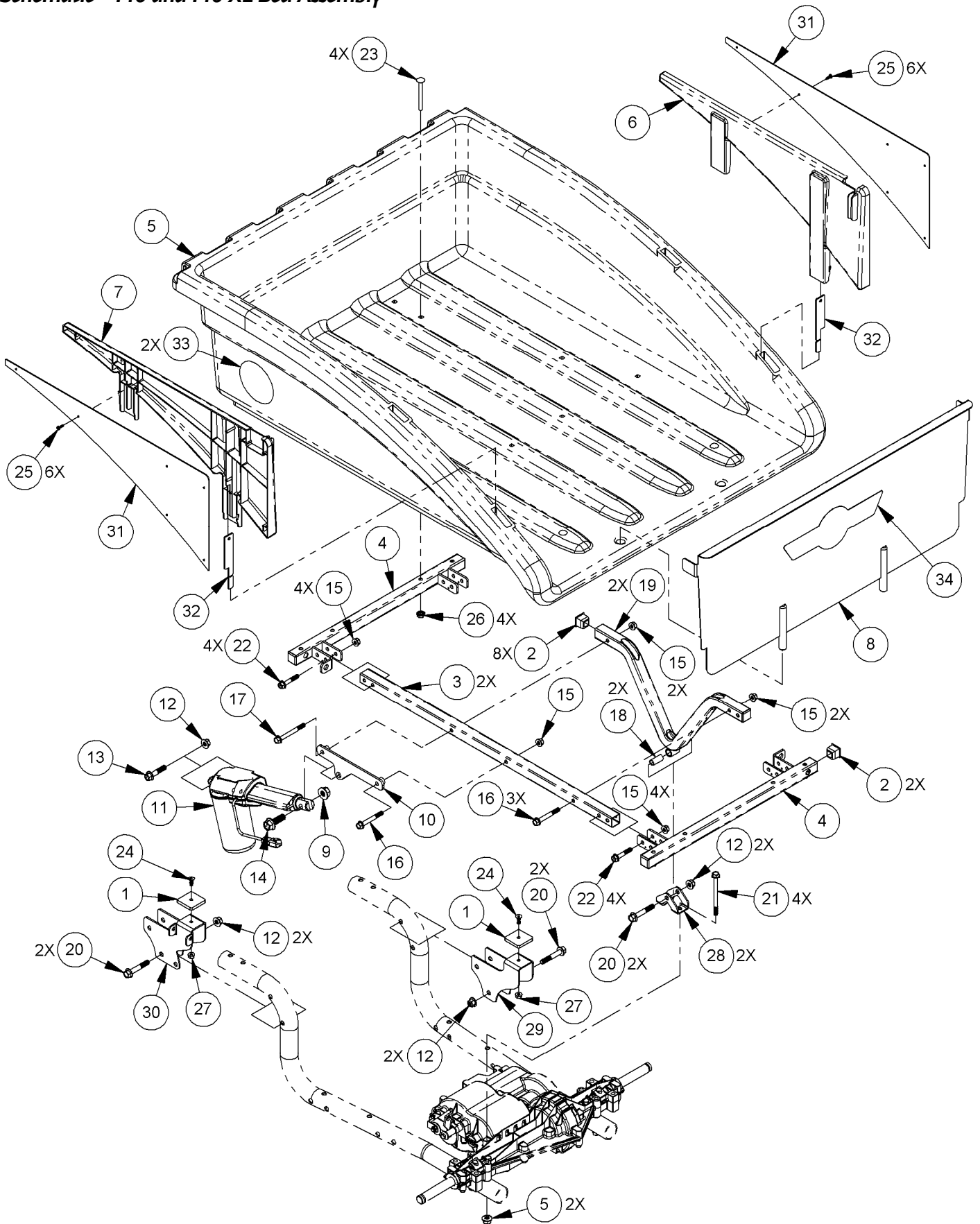


Parts List – Pro and Pro-XL Bed Assembly

Note: Part numbers listed are available through DR Power Equipment. Not all parts appear on all diagrams.

<u>Ref#</u>	<u>Part#</u>	<u>Description</u>	<u>Ref#</u>	<u>Part#</u>	<u>Description</u>
1	38560	Bumper, Bed	18	10940	Bushing .395" ID X .500" OD
2	11108	Plug, 1" X 1" OD, 16GA tube	19	10877	Arm, Dump
3	37924	Tube, Support, Cartbed	20	39086	Bolt, Hex, Flange, 3/8-16 X 2-1/4", GR8, ZP
4	37925	Brace, Cartbed	21	38593	Bolt, Hex, Flange, 5/16-18 X 4", GR8, ZP
5	38574	Cart Bed, With Labels	22	38599	Bolt, Hex, Flange, 5/16-18 X 1-3/4", GR5, ZP
6	37933	Sidewall, Left, Cartbed	23	35034	Bolt, Carr, 5/16-18 X 3", GR5, ZP
7	37934	Sidewall, Right, Cartbed	24	38594	Bolt, FHCS, 1/4-20 X .75", GR5, ZP
8	38573	Tailgate, With Labels	25	39083	Screw, Plastic Thread Forming, Pan Head, # 2 Philips, #8-18 X 1/2", Stl, ZP
9	33335	Nut, Nylon Lock, Flanged, 1/2-13	26	10668	Nut, Lock, Serrated Flange, 5/16-18
10	37936	Bracket, Actuator, Dump Arm	27	33331	Nut, Nylon Lock, Flanged, 1/4-20
11	37937	Linear Actuator, 12 V, 200 mm Stroke	28	37910	Bracket, Hinge, Transaxle
12	33333	Nut, Nylon Lock, Flanged, 3/8-16	29	37928	Bracket, Bed Rest, Left
13	38596	Bolt, Hex, Flange, 3/8-16 X 1-3/4", GR5, ZP	30	38562	Bracket, Bed Rest, Right
14	39084	Bolt, Hex, Flange, 1/2-13 X 1-1/2", GR5, ZP	31	38587	Plate, Sidewall
15	33332	Nut, Nylon Lock, Flanged, 5/16-18	32	38588	Rib, Sidewall
16	38598	Bolt, Hex, Flange, 5/16-18 X 2-1/2", GR8, ZP	33	34139	Label, DR Logo, 4", 4 Color
17	39085	Bolt, Hex, Flange, 5/16-18 X 3", GR8, ZP	34	38563	Label, Branding, Bed

Schematic – Pro and Pro-XL Bed Assembly

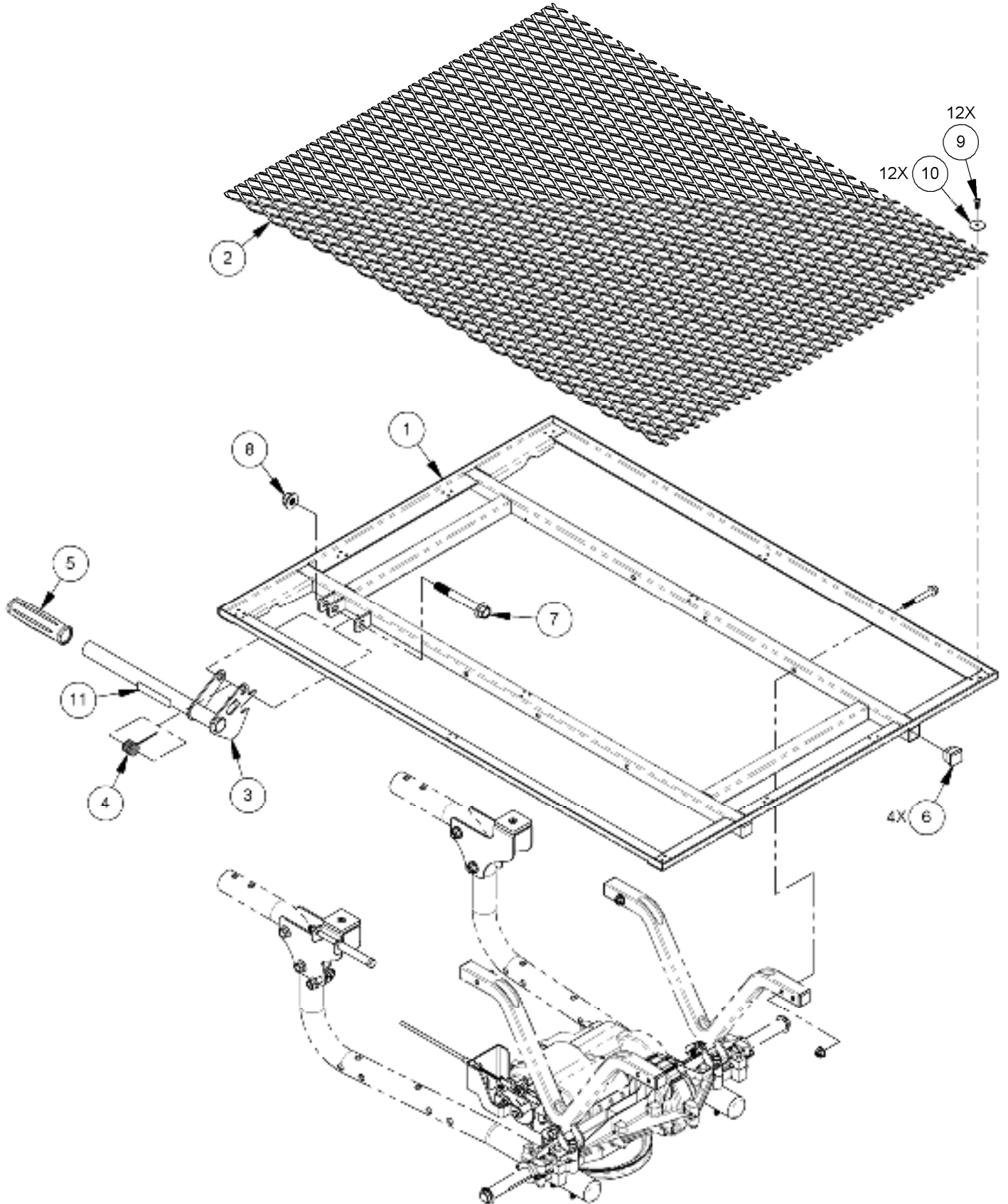


Parts List – Flatbed Assembly

Note: Part numbers listed are available through DR Power Equipment. Not all parts appear on all diagrams.

<u>Ref#</u>	<u>Part#</u>	<u>Description</u>	<u>Ref#</u>	<u>Part#</u>	<u>Description</u>
1	38522	Frame, Flatbed	7	33353	Bolt, Hex, Flange, 1/2-13 X 4", GR5
2	38523	Expanded Metal, Flatbed	8	33335	Nut, Nylon Lock, Flanged, 1/2-13
3	37926	Handle, Dump	9	39090	Screw, Round Head, Self Tapping, #10 X 5/8", ZP
4	38540	Spring, Torsion, 360 Deg, .063 Wire, .798 OD	10	39087	Washer, Fender, #10 X 1.0" X .050", ZP
5	16496	Grip, 1.00	11	15342	Label, Dump Lever
6	11108	Plug, 1" X 1" OD, 16ga Tube			

Schematic – Flatbed Assembly



DR[®] POWERWAGON



2-Year Limited Warranty

Terms and Conditions

The DR[®] POWERWAGON 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.

DR Power Equipment certifies that the DR[®] POWERWAGON is fit for ordinary purposes for which a product of this type is used. DR Power Equipment 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[®] POWERWAGON starts on the date the machine ships from our factory. The 2-Year Limited Warranty is applicable only to the original owner.

The warranty holder is responsible for the performance of the required maintenance as defined by the manufacturer's owner's manuals. The warranty holder is responsible for replacement of normally wearing parts such as the Drive Belts, Battery, Brake Pads, Filters, and Spark Plug. 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.

DR Power Equipment 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[®] POWERWAGON.

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

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

Daily Checklist for the DR POWERWAGON

WARNING

When performing any maintenance, you must first shut off the engine, set the parking brake, wait five minutes to allow parts to cool and disconnect the spark plug wire, keeping it away from the spark plug.

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

- [] OIL: With the machine on a level surface, remove the Oil Fill Cap and check the oil level. Fill the reservoir according to the Dipstick with SAE30 HD motor oil.
- [] GAS: Fill the Fuel Tank with fresh, unleaded gasoline.
- [] ENGINE: It is very important to keep the Engine clean. Remove grass and other debris from the Engine Cooling Fins and Debris Guard. A dirty Engine retains heat and can cause damage to internal Engine components.
- [] BELT: Check the Belt for wear.
- [] AIR FILTER: A clean Air Filter will mean a much easier starting and cooler running Engine. Please refer to your Engine Owner's Manual for instructions on cleaning the Air Filter.
- [] TIRES: Check the Tires for wear and proper inflation.

End of Season and Storage

WARNING

When performing any maintenance, you must first shut off the engine, set the parking brake, wait five minutes to allow parts to cool and disconnect the spark plug wire, keeping it away from the spark plug.

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

- Change the oil (8.75 Engines only); this will help to eliminate sludge and acids in the Engine. For winter use, use SAE 5W – 30W.
- If your DR POWERWAGON will be idle for more than 30 days, we recommend using a gas stabilizer. This will prevent sediment from gumming up the carburetor. If there is dirt or moisture in the gas or tank, remove it by draining the tank. Completely fill the tank with fresh, unleaded gas and add the appropriate amount of stabilizer or gasoline additive. Run the Engine for a short time to allow the additive to circulate.
- Remove the Spark Plug and pour about 1 ounce of motor oil into the cylinder hole. Replace the Plug and pull the Recoil Starter Rope until you feel strong resistance. This will coat the piston and seat the valves to prevent moisture buildup.
- Clean and/or replace the Air Filter(s).
- Clean dirt and debris from the cylinder head cooling fins, carburetor linkage, blower housing, rotating screen, and muffler area of the Engine.
- Check to make sure the operator controls are moving freely. Lubricate the Throttle Lever Cable, Parking Brake Cable and Traction Control cable with SAE 30 Oil if necessary. See page 22.
- Electric starting models: Remove the Battery and keep it in a cool, dry place when the DR POWERWAGON is in storage. We suggest charging the Battery once a month while the DR is stored, and again before you are ready to start the new season. This will help the Battery maintain its charge all season. See page 21.



DR® Power Equipment

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