

DR[®] REDI-PLOW[™] PLUS

SAFETY & OPERATING INSTRUCTIONS



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[®] REDI-PLOW[™] PLUS.

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Conventions used in this manual

WARNING

This indicates a hazardous situation, which, if not avoided, ***could*** result in death or serious injury.

CAUTION

This indicates a hazardous situation, which, if not avoided, ***could*** result in minor or moderate injury.

NOTICE

This information is important in the proper use of your machine. Failure to follow this instruction could result in damage to your machine or property.

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 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 REDI-PLOW. 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 REDI-PLOW carries prominent labels as reminders for its proper and safe use. Shown below are copies of 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 REDI-PLOW as you set up and before you operate the unit. Replace damaged or missing safety and information labels immediately.



#33619

Operating the Plow Safely

WARNING

The vehicle the plow is attached to is a heavy, high-powered machine. You must operate the vehicle safely. Unsafe operation can create a number of hazards for you, as well as anyone else in the nearby area. Always take the following precautions when using this vehicle and Plow:

- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people, their property, and themselves.
 - Keep bystanders at least 50 feet away from your work area at all times. Stop and shut off the vehicle engine when another person or pet approaches.
 - Remember – always exercise safety, courtesy, and common sense.
 - Avoid overloading your equipment - push only enough snow with each pass to get the job done.
 - When transporting blade, secure it to hanger brackets with pins or locks.
 - Do not exceed 65 MPH when transporting plow.
 - Do not exceed 10 MPH when plowing.
 - Never pile snow on someone else's property, on street or sidewalks, by fire hydrants, mailboxes, water drains or electrical boxes.
 - Check with local regulations before pushing snow across roads-it may be illegal.
 - Do not pile snow near handicapped or parking areas.
 - Plow snow during low-traffic hours - be cautious of pedestrians and vehicles.
 - Never pile snow where it obstructs visibility of traffic.
-

Operating the Plow Safely (continued)

WARNING

- Use lowest transmission gear, on 4WD select low range if equipped.
 - On manual transmission avoid riding the clutch.
 - Be aware of engine temperature - avoid overheating.
 - When backing up don't rely on rear view mirrors-turn around and look where you are going.
 - Never plow with your head out of the window-an unexpected sudden stop could result in personal injury.
 - Always wear your seat belt-even when plowing snow.
 - Follow vehicle manufacturers specifications for snowplowing.
 - Never operate the machine when under the influence of alcohol, drugs, or medication.
 - Keep all nuts and bolts tight and keep the equipment in good operating condition.
 - When pushing snow onto a pile, always do so with blade in the straightforward position. Piling snow with blade angled may cause damage to plow or vehicle components.
 - Use caution when plowing next to a building wall. Make first pass about 3 feet away, make second pass about 2 feet away and third pass about 1 foot away.
-

Safety for 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 plowing activity. Never assume that children will remain where you last saw them. Always follow these precautions:

- Keep children and pets out of the working area and under the watchful care of a responsible adult.
 - Be alert and turn the vehicle off if children or pets enter the work area.
 - Never allow children to operate the REDI-PLOW.
 - Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure your vision.
-

A Note to All Users

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

Chapter 2: Setting Up The DR® REDI-PLOW™ PLUS

Assembly

Tools and Supplies needed:

- Ft. lb. Torque Wrench
- Impact or Ratchet with 9/16" and 3/4" Socket
- Drill with 3/16" and 5/16" Drill Bit
- #3 Phillips Driver Bit
- Box Wrench 3/4"
- Open Wrench 5/16"
- Allen Wrench 3/16"
- 2 Short Pcs. of 2 X 4 Blocking
- Bubble Level
- Protective Eyewear

Note: Prior to plow assembly, park vehicle on level grade and install plow mount receiver (shipped separately). Clearance under receiver should measure between 8 to 16 inches above grade (**Figure 1**). Interceptor can be installed with leg turned up or down as needed for proper push frame clearance (Shown turned up in illustrations).

1. Insert interceptor into receiver – leg up. Secure with pins (interceptor has choice of holes to allow for clearance when aligning blade). Hold push frame against interceptor. Select 4 bolt hole pattern that positions push frame 8" to 10" above grade. If lowest bolt pattern is too high, remove interceptor and turn leg down. Bolt push frame (4 bolts 1/2" x 4" w/flat washers and lock nuts) to proper hole height on interceptor – leave bolts snug tight for now.
2. Push set collar tight against receiver – hold and tighten set screw with 3/16" Allen wrench (**Figure 2**).
3. With bolts snug tight, level push frame horizontally (**Figure 3**).
4. Check push frame for vertical plumb (**Figure 4**). If plumb, tighten 4 bolts now and go to step 5. If not plumb, refer to the following shim procedure.

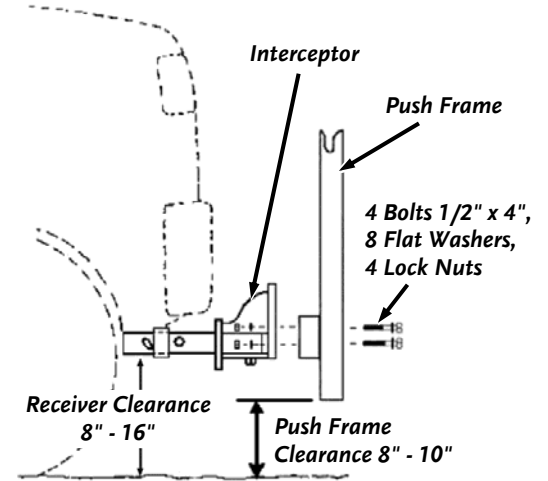


Figure 1

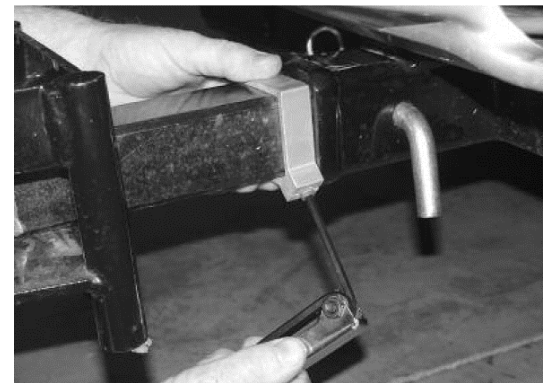


Figure 2

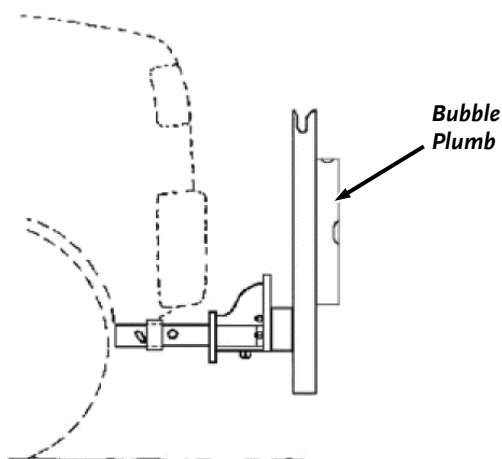


Figure 4

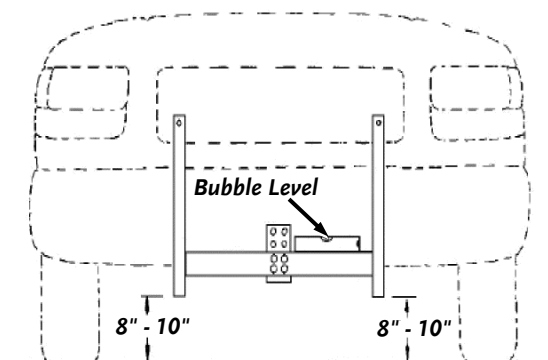


Figure 3

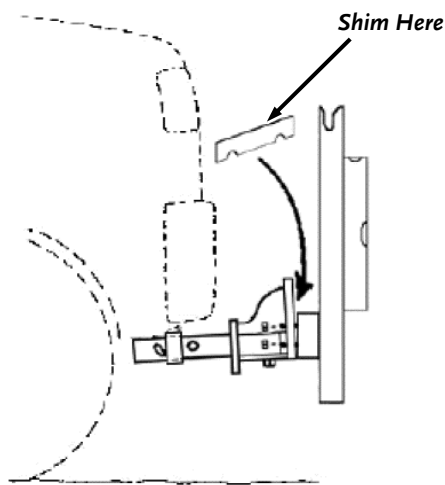


Figure 5

- If the push frame leans towards front of vehicle. Shim at top pair of bolts (**Figure 5**). If the push frame leans away from front of vehicle. Shim at bottom pair of bolts (**Figure 6**).

WHEN SHIMMING IS COMPLETE – TIGHTEN ALL BOLTS.

- Refer to exploded view components for plow blade parts before performing next step (**Figure 7**).

Note: Rubber Blade should be room temperature before assembly.

- Apply soapy water solution to channel areas of the Rubber Blade and bottom section of Aluminum Blade where they will mate together (**Figure 8**).
- Slide end of rubber edge with matching channel in bottom half of aluminum blade and center on bottom half.
- Turn bottom half of blade over and set it on wood blocks, one at each end as shown (**Figure 9**). Take top half and connect tongue and groove joint with bottom half. Slide top half until centered with bottom half of blade.

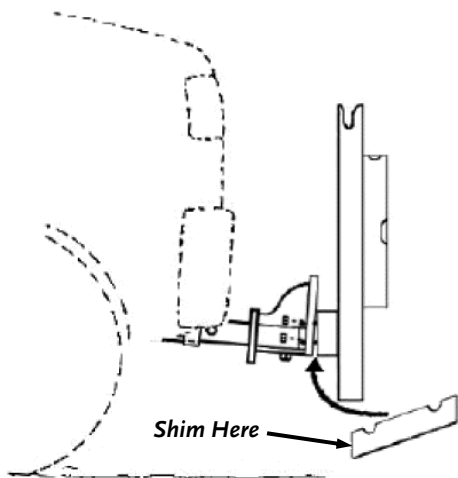


Figure 6

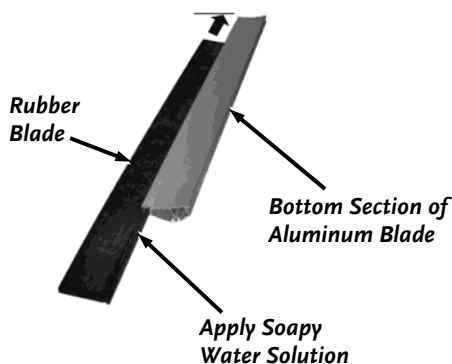


Figure 8

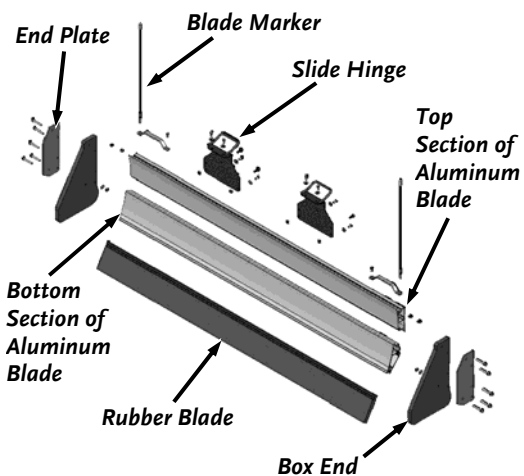


Figure 7

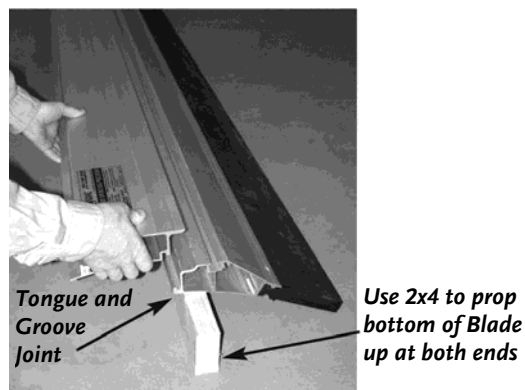


Figure 9

10. Place each side hinge on blade and align edge of hinge with factory mark on blade (**Figure 10**).
11. When both hinges are properly aligned – they should measure 22 1/2" apart (**Figure 11**).
12. At end of blade, insert two square nuts in each channel – flat side facing out. Slide nuts over to hinge and align them with holes at top and bottom (**Figure 12**).
13. Turn 3/8" x 3/4" hex bolts with flat washer into nuts on top section of blade and leave loose (**Figure 13**). Turn 3/8" x 3/4" hex bolts into nuts on bottom section of blade and leave loose.
14. Make sure slide hinge is lined up with mark (**Figure 10**). Using 9/16" wrench, tighten hex bolts in top section first (**Figure 14**). Then tighten hex bolts on bottom section.
15. Using 5/16" bit, drill a hole through blade in each factory punched hole on slide hinge (**Figure 15**). Turn a (short) 3/8" self threading bolt into each drilled out hole and tighten. Repeat steps to attach opposite slide hinge.

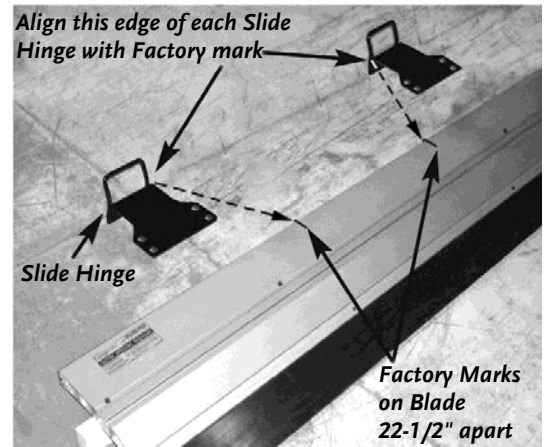


Figure 10

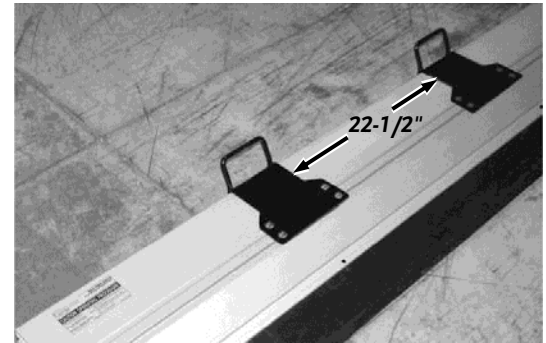


Figure 11

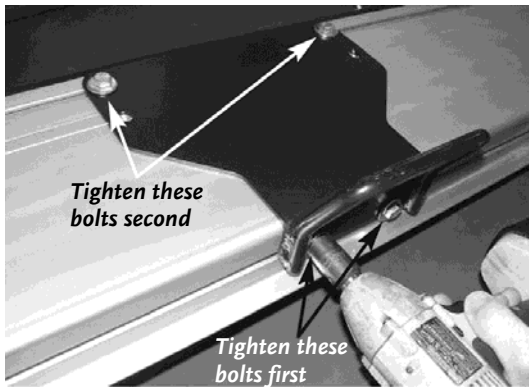


Figure 14

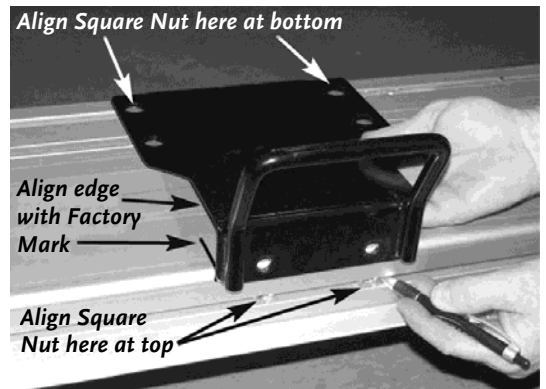


Figure 12

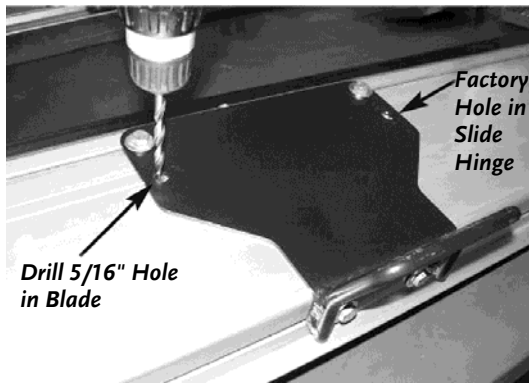


Figure 15

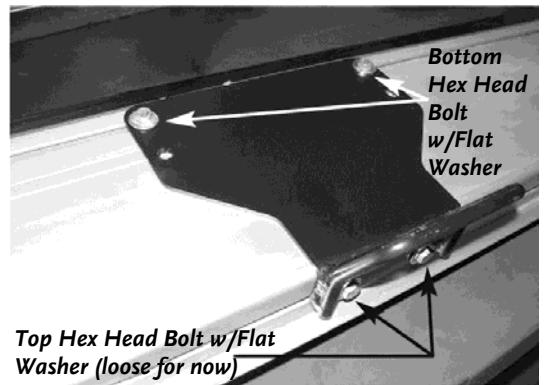


Figure 13



Figure 16

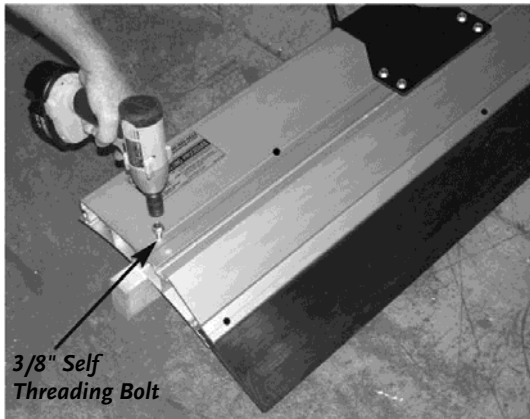


Figure 17

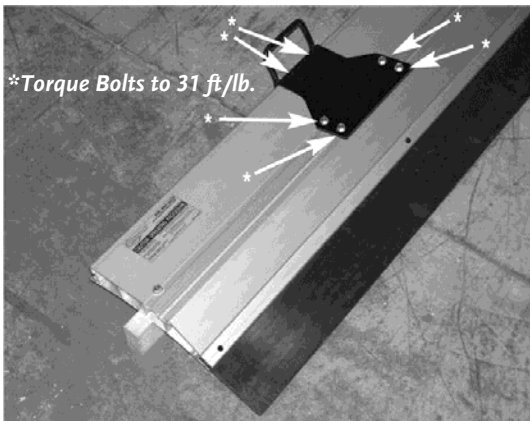


Figure 18

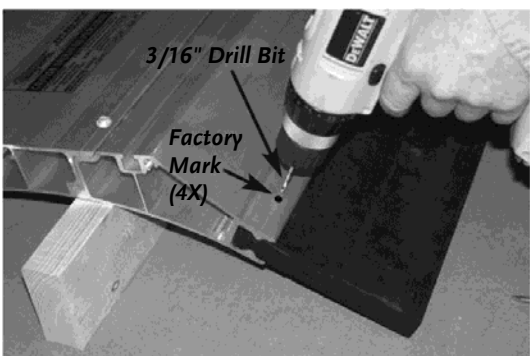


Figure 19

16. At tongue and groove joint, drill a 5/16" pilot hole at factory mark in v-groove at each end (**Figure 16**).
17. Using a 9/16" wrench, turn a (short) 3/8" self threading bolt into 5/16" pilot hole and tighten (**Figure 17**). Repeat at other end.
18. Using torque wrench, tighten all (6) bolts on each slide hinge to 31 ft/lbs. (**Figure 18**).
19. At bottom of blade, check to make sure rubber edge is centered, then drill a 3/16" pilot hole at factory mark in v-groove (4 locations) – drill only through first layer of aluminum and into rubber (**Figure 19**). Repeat this drilling procedure for three remaining marks.
20. Using Phillips #3 bit, run a self drilling screw into each of the four pilot holes (**Figure 20**). This prevents rubber from movement.
21. Hang blade on push frame in the transport position and insert key hole pins (**Figure 21**).
22. Attach tether cord to pins by feeding end of cord through hole in pin and tying a square knot (**Figure 22**).

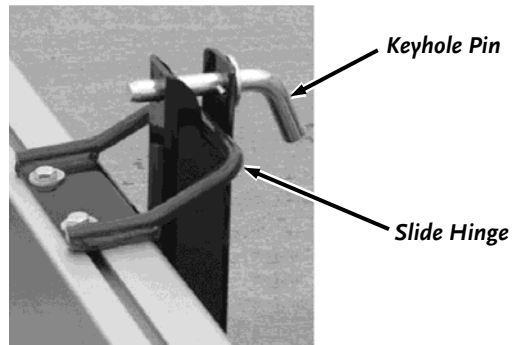
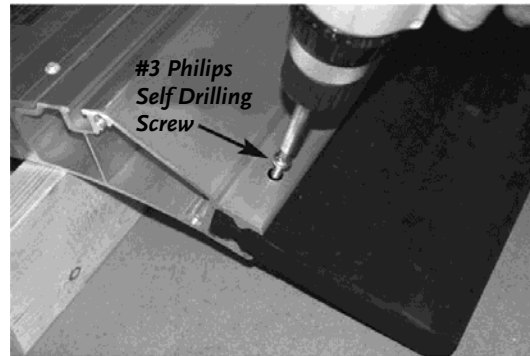


Figure 21

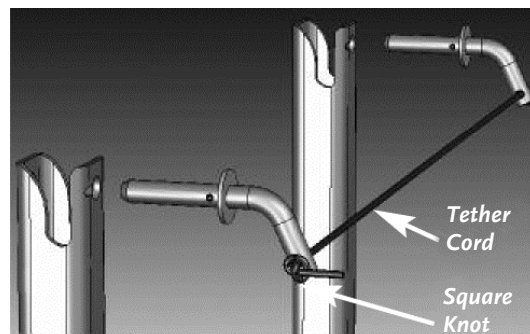


Figure 22

23. Insert two square nuts into top channel (**Figure 23**). Turn a hex head jam nut onto the stud of blade marker and align marker with hole on lift handle and bolt marker and handle to blade using square nut in channel.
24. Turn 3/8" x 3/4" bolt into other hole on handle and thread to nut in channel (**Figure 24**). Position the handle flush with blade edge. Then tighten both bolts on lift handle. Repeat at other end.
25. Attach rubber end and metal cap plate to end of blade with four long self threading bolts (**Figure 25**).
26. Tighten all bolts until rubber begins to compress to blade. Insert a 5th bolt to tighten bottom of rubber to bottom of end plate. Use flat washer and lock nut (**Figure 26**).
27. Tighten all bolts equally. Repeat box end assembly at opposite end (**Figure 27**).

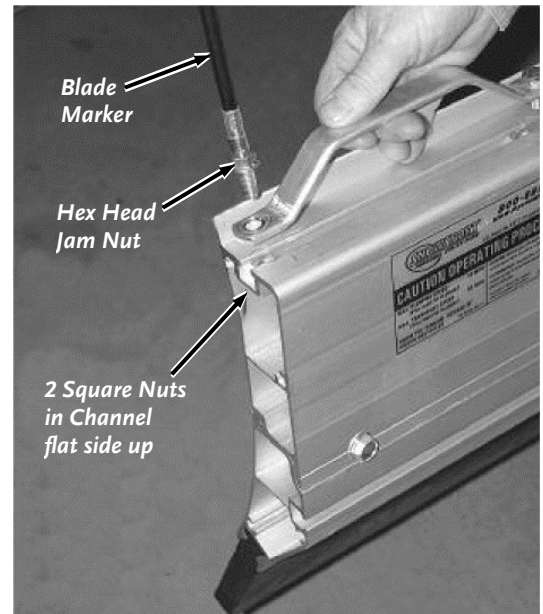


Figure 23

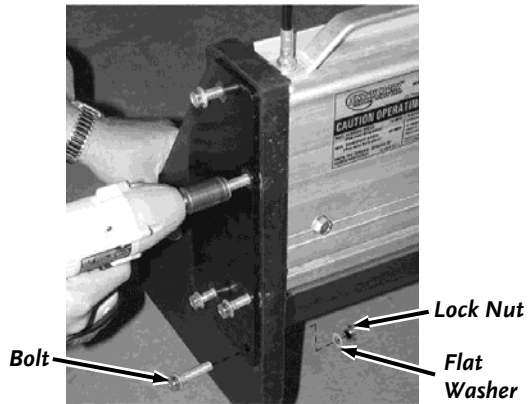


Figure 26

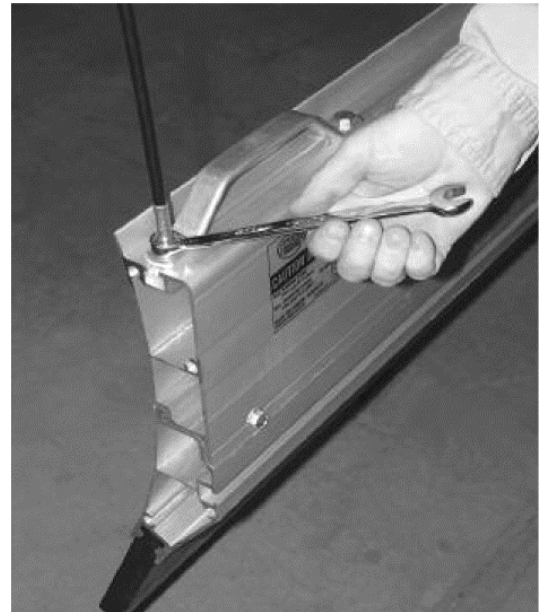


Figure 24



Figure 27

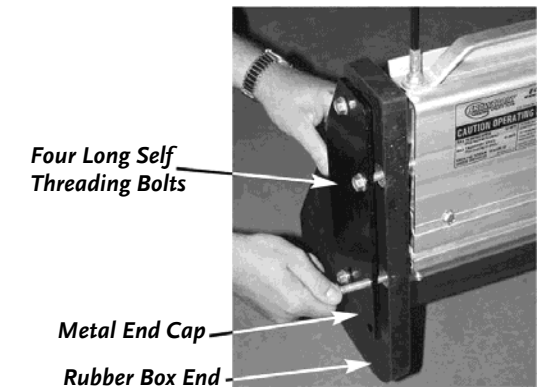


Figure 25

Basic Snowplowing Practices and Tips

The REDI-PLOW is designed to make moving snow convenient and easy. By following these simple practices, snow removal can be safe and enjoyable.

- If blade is kept in warm storage, set blade outside and allow to cool-this prevents snow from freezing to blade when plowing.
- Setting the blade straight forward is the most efficient way to move snow.
- Always keep current with fresh snowfall, it's easier to plow fresh snow. Wet snow can compact and freeze which requires chipping to break it loose before attempting to move it.
- From the start of the season, push the snow far enough out to allow for future snowfalls.
- Avoid overloading your equipment-push only enough snow with each pass to get the job done.
- When pushing snow onto a pile, always do so with blade in the straight forward position. Piling snow with blade angled may cause damage to plow or vehicle components.
- When pushing new snow to stack up against hardened piles, start a new pile first and then push it up on to hard pile.
- Use caution when plowing next to a building wall. Make first pass about 3 feet away, make second pass about 2 feet away and third pass about 1 foot away.
- When transporting blade, secure it to hanger brackets with pins or locks.
- On 4WD select low range, if equipped.
- Always know the terrain before plowing.

Operating instructions

WARNING

- The design of your plow is for pushing snow. Do not use it for any other purpose as it could cause damage to the plow or machine.
- Before performing any adjustments to the plow or any other procedure or inspection, stop the vehicles engine, set the parking brake and remove the key.

Keyhole Pins Secure Blade During Transporting

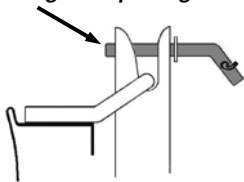


Figure 28

Keyhole Pins Reinstalled To Secure Blade During Plowing

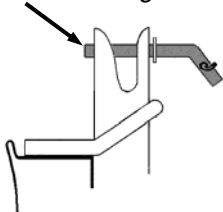


Figure 29

Read and understand all safety warnings listed in Chapter 2 “General Safety Rules” before using your REDI-PLOW.

Note: If blade is kept in warm storage, set blade outside and allow to cool - this prevents snow from freezing to blade when plowing.

LOWERING THE BLADE FOR PUSHING SNOW:

1. Step behind the Plow and remove the keyhole pin (**Figure 28**).
2. Lift one side of the blade out of retainer until the slide hinge fits over the push bar, then lower blade to ground.
3. Re-insert keyhole pin (**Figure 29**). Repeat same procedure for other side of blade.

TO PUSH SNOW:

Follow vehicle manufacturers' specifications for snowplowing.

Note: Do not exceed 10 MPH when plowing.

Use lowest transmission gear, on 4WD select low range if equipped.

4. To start a pass, Drive forward slowly allowing for tire traction and for the blade to accumulate snow.
5. As you come to the end of the pass, reduce speed and start applying brakes as needed.
6. Back up to disengage the blade and continue backing up until you are realigned for next push.
7. Repeat this procedure until job is finished. Deep and/or compacted snow may require several passes.

The blade can be angled by removing swivel pin, turning blade to desired angle position and reinserting pin (**Figure 30**).

Angled Interceptor Note: *There are two holes in the interceptor shaft. When inserting angle interceptor into front mount receiver, select the hole which allows blade to swing as far as possible without contacting vehicle.*

TO STORE BLADE FOR TRANSPORTING:

Reverse procedure from “Lowering the Blade for Pushing Snow” and re-insert keyhole pins (**Figure 28**).

- Do not exceed 65 MPH when transporting plow.

Note: *When transporting blade, secure it to hanger brackets with pins or locks.*

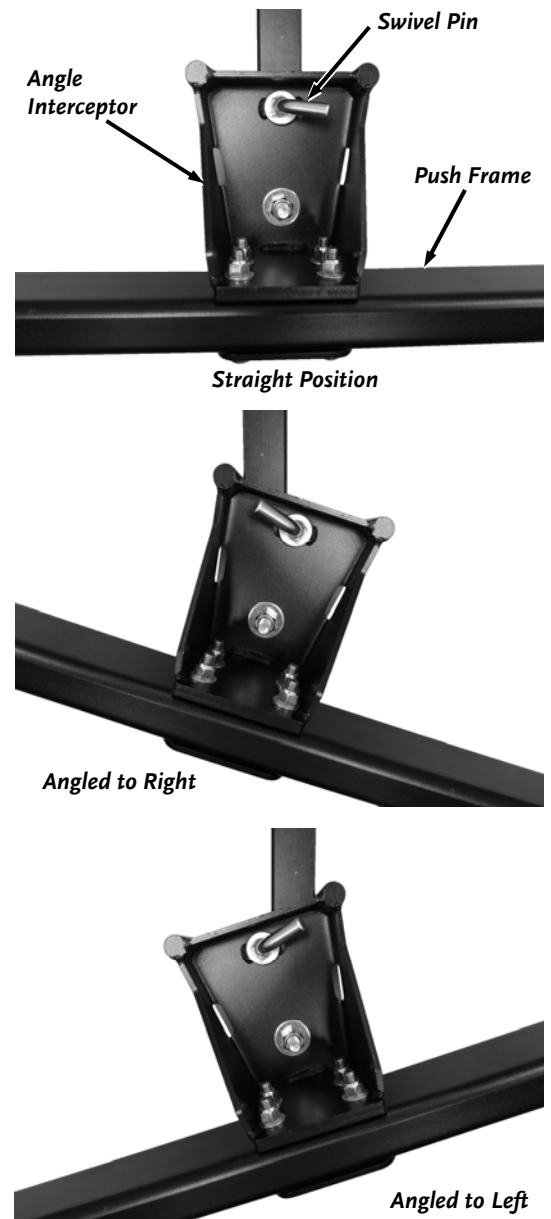


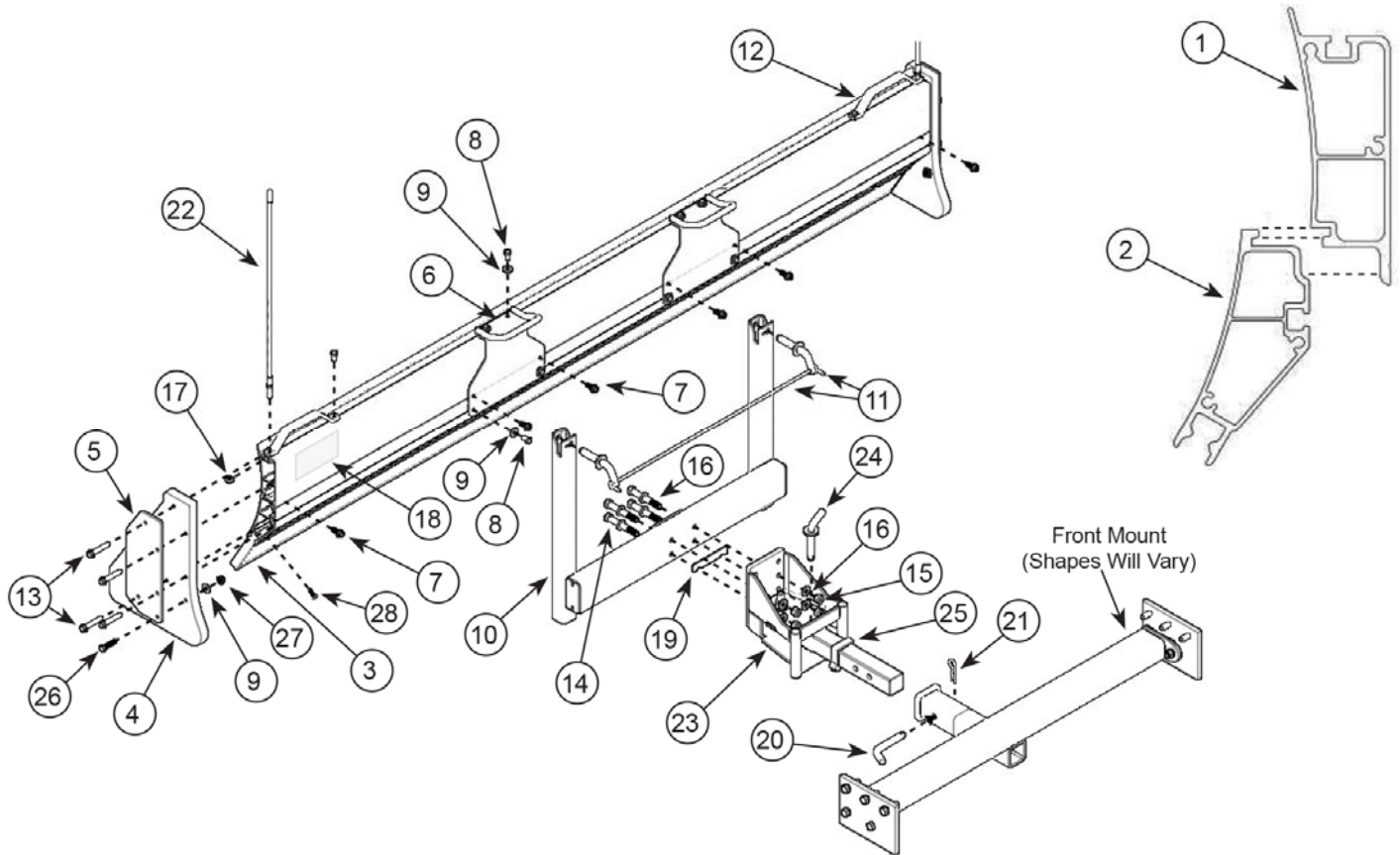
Figure 30

Chapter 4: Parts Lists and Schematic Diagrams

Parts List – DR® REDI-PLOW™ PLUS

Note: Part numbers listed are available through DR Power Equipment.

Ref#	Part#	Description	Ref#	Part#	Description
1	33601	Aluminum Blade, Top, 82"	15	33616	Nut, Lock, 1/2" ZP
2	33602	Aluminum Blade, Bottom, 82"	16	33617	Washer, Flat, 1/2" ZP
3	33603	Rubber Cutting Edge, 82"	17	33618	Nut, Square, 3/8" ZP
4	33604	Rubber Box End	18	33619	Label, Operation & S/N, RDP Plus
5	33605	Metal End Cap	19	33620	Leveling Shim
6	33606	Slide Hinge	20	33621	Hitch Pin
7	33607	Bolt, Self Threading, 3/8" x 1" ZP	21	33622	Hair Pin
8	33608	Bolt, Hex Head, 3/8" x 3/4" ZP	22	33623	Blade Marker Kit, Top Mount
9	33609	Washer, Flat, 3/8" ZP	23	33624	Angle Interceptor Kit
10	33610	Push Frame w/Hardware Kit	24	33625	Swivel Pin
	33611	Hardware Kit, Push Frame	25	33626	Set Collar
11	33612	Keyhole Pin	26	33627	Bolt, 3/8" x 1- 3/4" GR 5 ZP
12	33613	Lift Handle	27	33628	Nut, Nylon Lock, 3/8" ZP
13	33614	Bolt, Self Threading, 3/8" x 2- 1/2" ZP	28	33629	Screw, Self Drilling, #14 x 1" ZP
14	33615	Bolt, Hex, 1/2" x 4" GR 8 ZP	-	34007	Label, RDP Plus Logo



DR[®] REDI-PLOW™ PLUS



2-Year Limited Warranty

Terms and Conditions

The DR[®] REDI-PLOW™ PLUS 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[®] REDI-PLOW™ PLUS 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[®] REDI-PLOW™ PLUS 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. This warranty does not cover attachments and accessories to the machine.

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

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

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[®] REDI-PLOW™ PLUS.

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 HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

Daily Checklist for the DR® REDI-PLOW™ PLUS

To help maintain your REDI-PLOW for optimum performance, we recommend you follow this checklist each time you use your machine.

! WARNING

Before performing any adjustments to the plow or any other procedure or inspection, stop the vehicles engine, set the parking brake and remove the key.

[] RUBBER BLADE: Check the Blade for wear or damage.

[] GENERAL CONDITION: Check the general condition of the machine, e.g.; nuts, bolts, welds etc.

End of Season and Storage

! WARNING

Before performing any adjustments to the plow or any other procedure or inspection, stop the vehicle's engine, set the parking brake and remove the key.

- For maximum blade life, periodically retighten bolts and protect blade from sun by storing it inside or covered.



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