

SNO-WAY[®]

SNOW & ICE CONTROL EQUIPMENT

INSTALLATION MANUAL

LOW VOLTAGE ASSIST KIT

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INTRODUCTION

This manual was written for the installation of your Low Voltage Assist Kit. Refer to the Table of Contents for an outline of this manual.

Please keep this manual with your machine at all times as reference material and so it can be passed on to the next owner if the machine is sold.

We require that you read and understand the contents of this manual COMPLETELY, especially the chapter on SAFETY, before attempting any procedure contained in this manual.

We reserve the right to make changes or improve the design or construction of any part(s) without incurring the obligation to install such parts or make any changes on any unit previously delivered.

Graphics and illustrations may be used which may show equipment and/or options not included in every installation without incurring the obligation to install such parts or make changes on units previously delivered.

Sno-Way Service Parts Manuals are available on-line or at your authorized Sno-Way dealer. Factory contact information is available at www.snoway.com.



The Society of Automotive Engineers has adopted this SAFETY ALERT SYMBOL to pinpoint characteristics that, if NOT carefully followed, can create a safety hazard. When you see this symbol in this manual or on the machine itself, BE ALERT!, your personal safety and the safety of others, is involved.

- Defined in the next column, are the SAFETY ALERT messages and how they will appear in this manual.



WARNING

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



CAUTION

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

NOTICE

IS USED TO ADDRESS PRACTICES NOT RELATED TO PHYSICAL INJURY. FAILURE TO FOLLOW COULD LEAD TO PROPERTY DAMAGE.

NOTE: Additional information concerning the equipment or the procedure that may or may not be contained elsewhere in this manual.

SAFETY

BEFORE ATTEMPTING ANY PROCEDURE IN THIS BOOK, READ AND UNDERSTAND ALL THE SAFETY INFORMATION CONTAINED IN THIS SECTION. IN ADDITION, ENSURE ALL INDIVIDUALS WORKING WITH YOU ARE ALSO FAMILIAR WITH THESE SAFETY PRECAUTIONS.

ALWAYS operate vehicle in a well-ventilated area. The carbon monoxide in exhaust gas is highly toxic and can cause serious injury or death.

NEVER allow hands, hair or clothing to get near any moving parts such as fan blades, belts and pulleys. Never wear neckties or loose clothing when working on the vehicle.

NEVER wear wrist watches, rings or other jewelry when working on the vehicle or individual equipment. These things can catch on moving parts or cause an electrical short circuit that could result in personal injury.

ALWAYS wear safety goggles when working on the vehicle to protect your eyes from battery acid, gasoline, and dust or dirt from flying off of moving engine parts.

ALWAYS be aware of and avoid contact with hot surfaces such as engine, radiator, and hoses.

ALWAYS lock the vehicle when unattended to prevent unauthorized operation.

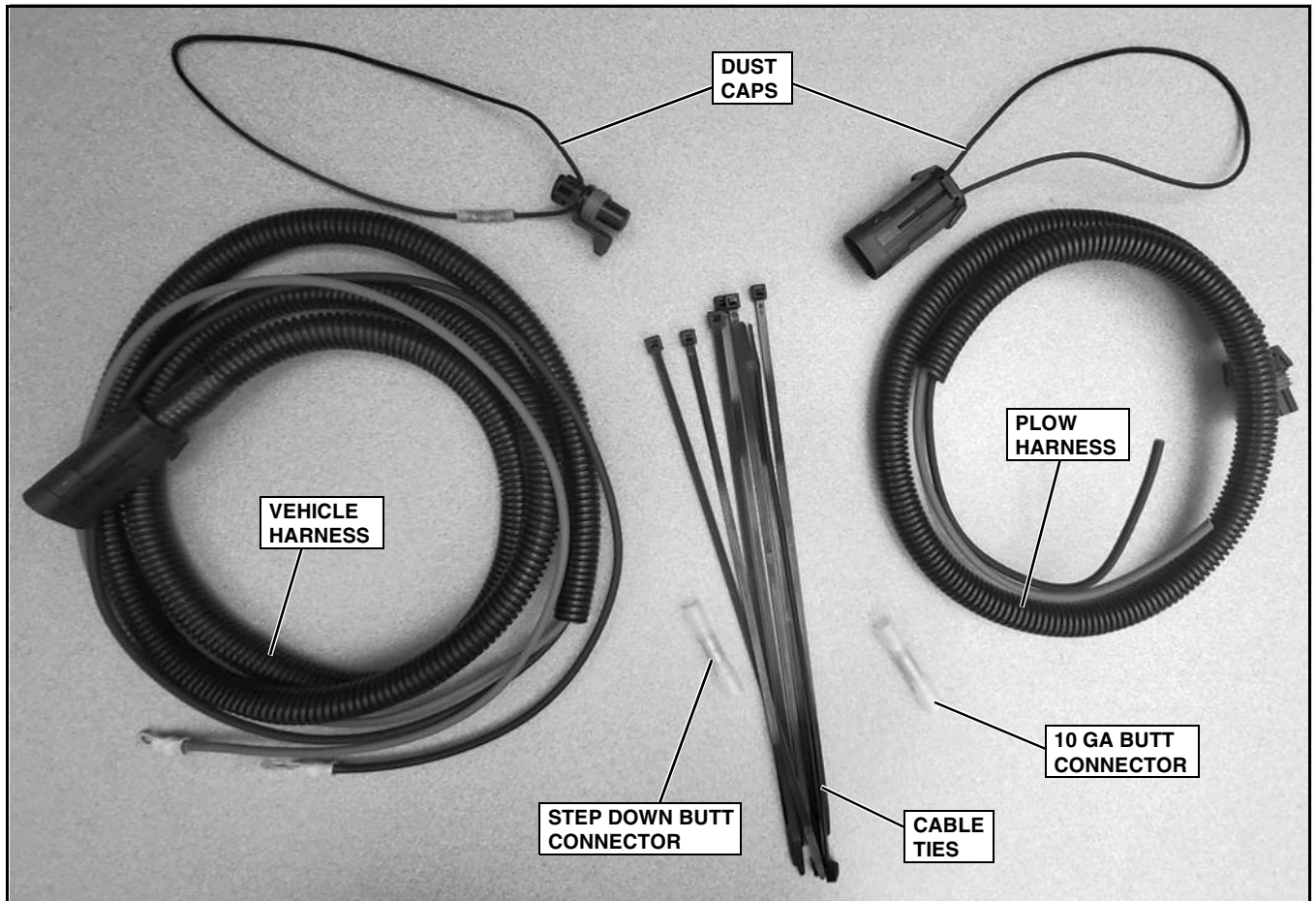
NEVER work on the vehicle without having a fully serviced fire extinguisher available. A 5 lb or larger CO² or dry chemical unit specified for gasoline, chemical or electrical fires, is recommended.

NEVER smoke while working on the vehicle. Gasoline and battery acid vapors are extremely flammable and explosive.

REMEMBER it is the owner's responsibility for communicating information on the safe use and proper maintenance of this machine.

INSTALLATION

Kit Contents



Plow Harness Installation

1. Disconnect all harnesses attaching the plow to the truck.
2. Remove the pump cover.
3. Remove the ring terminal for the Black Ground wire of the pump harness from the pump block. Tighten hardware once removed. (See Figure 1-1)
4. Cut off the ring terminal, strip off a ¼" of insulation.
5. Strip off a ¼" of insulation from the blunt cut black wire of the plow harness.
6. Using a 10ga heat shrink butt connector from the kit, crimp and seal the two black wires together.

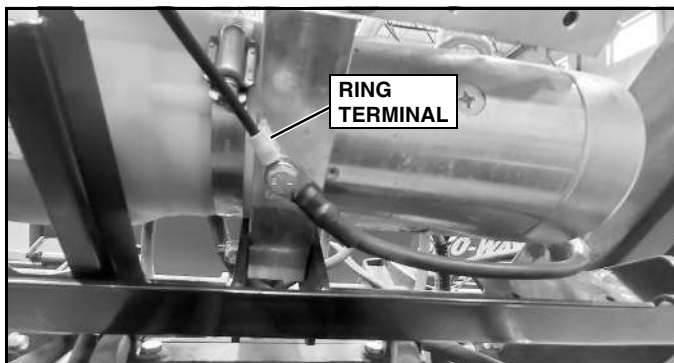


Figure 1-1

7. Remove the ring terminal for the Red/White wire attached to the 5/16"-18 post of the solenoid switch. Tighten hardware once removed. (See Figure 1-2)

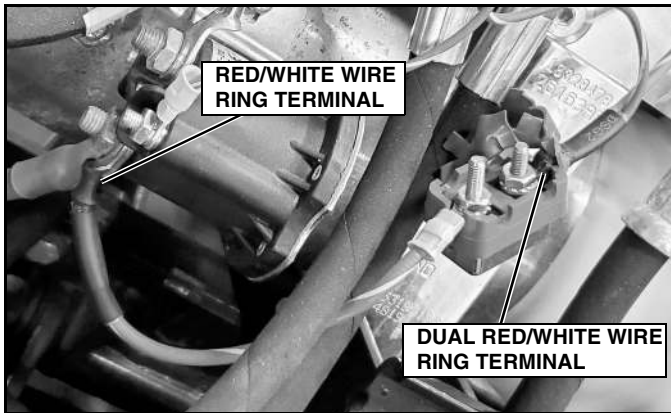


Figure 1-2

RevolutionHD Plow is shown in photo. Different plows will have different layouts of the solenoid switch.

8. Remove the ring terminal for the dual Red/White wire attached to the circuit breaker. Set aside the circuit breaker with attached wire for installation of the vehicle harness.

9. Cut off the ring terminal for the dual Red/White wire, then strip off 1/4" of insulation for both wires and the blunt cut red wire of the plow harness.

10. Using a 10ga-8ga heat shrink butt connector from the kit, crimp and seal the wires together.

11. Use some of the supplied cable ties to prevent excessive movement and strain on the plow harness by securing it to the 4ga power harness.

12. Secure the pump cover back in place and attach the male dust cap onto the plow harness.

Vehicle Harness Installation

1. Attach the small ring terminal on the red wire of the vehicle harness to the empty side of the circuit breaker that came off the plow.



WARNING

Disconnect the vehicle NEG. (-) battery cable while performing steps 2 - 5 to avoid serious bodily injury from electrical shock, fire, or explosion. Do not re-connect battery cable until indicated in step 8.

FAILURE TO FOLLOW CAN RESULT IN DEATH OR SERIOUS INJURY.

2. Attach the vehicle harness to the secondary battery (if equipped).

3. Connect the Red/White wire to the positive terminal of the battery.

4. Route the battery power harness to a convenient point out to the front of the vehicle for connection to the plow. Attach the dust cap to the end of the harness.

5. Attach the Black wire from the vehicle harness to the NEG(-) terminal of the battery and re-connect the negative battery terminal.



WARNING

The power cable in front of the truck is wired directly to the battery. The power cable is always energized, even if the truck is turned off. Always replace the protective cap after disconnecting the plow power cable. Allowing an unprotected plug to contact metal parts of the truck may cause electrical component damage. Never use a metal object to clean the plug contacts.

FAILURE TO FOLLOW CAN RESULT IN DEATH OR SERIOUS INJURY.

NOTE:

- *Please keep this manual with the owner's manual of the plow so it can be referenced in case of trouble shooting and operation.*
- *Remember to connect and disconnect this added harness with the other two connectors that are referenced in the plow owner's manual.*

NOTES

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