

CONTROL KITS

POWER PLOW[®] POWER GRIP[™] Hand-Held Control with SECURITY GUARD[™] Snowplow Anti-Theft System Operating Instructions

⚠ WARNING

To prevent accidental movement of the blade, always push button to switch the control OFF whenever the snowplow is not in use. The control indicator light will turn off.

SECURITY GUARD[™] SYSTEM OVERVIEW

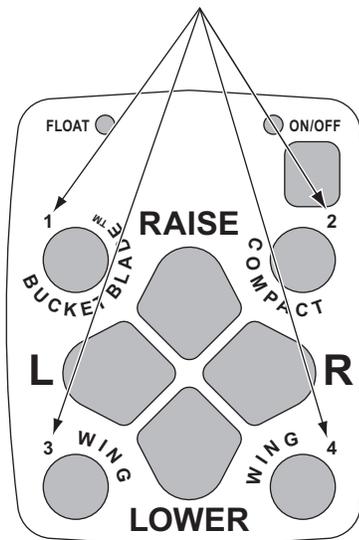
The SECURITY GUARD feature was developed as an electrical anti-theft system for snowplows. The system provides a deterrent from theft and/or non-permitted use by allowing you to electronically lock the snowplow's hydraulic functions.

Most POWER HITCH[™] 2 snowplow controls and plow modules come equipped with the SECURITY GUARD system. You will need to ensure that the control and the plow module on the hydraulic unit are both SECURITY GUARD system enabled (see illustration to the right for proper identification of these components).

To use this function, you must complete the "Activation" process.

Each control is equipped with an ON/OFF switch and an indicator light to show when the control is powered ON or OFF. The controls are powered by the vehicle's battery, so your vehicle ignition (key) switch must be ON to use the controls.

SECURITY GUARD System Enabled Controls Have Numbers 1 Through 4 on the Faceplate.



The security equipped controls can be identified by the numbers one through four on the faceplate of the control, as shown above. The isolation module for the snowplow must also be equipped with SECURITY GUARD system programming. POWER HITCH 2 hydraulic units with serial numbers beginning with 09061610 and later have the SECURITY GUARD system programming. SECURITY GUARD system enabled modules can also be identified by the dash three (-3) after the model number on the module itself.

Before Activating the SECURITY GUARD™ System:

Install the control as stated in the Hand-Held Control Kit Installation Instructions, and check all plow functions as described below.

OPERATING THE POWER GRIP™ HAND-HELD CONTROL

1. Turn the vehicle ignition button to the "ON" or the "ACCESSORY" position.
2. Press the ON/OFF switch on the control. The power indicator light glows red, indicating the control is ON. The indicator light glows red whenever the control and the vehicle ignition switch are both ON and the electrical connections to the snowplow are completed.

The ON/OFF switch operates as an emergency stop if required.

Function Time-Outs

All control functions, except LOWER/Float, time out (stop) automatically after a period of time. This is to limit the amount of electrical energy required from the vehicle.

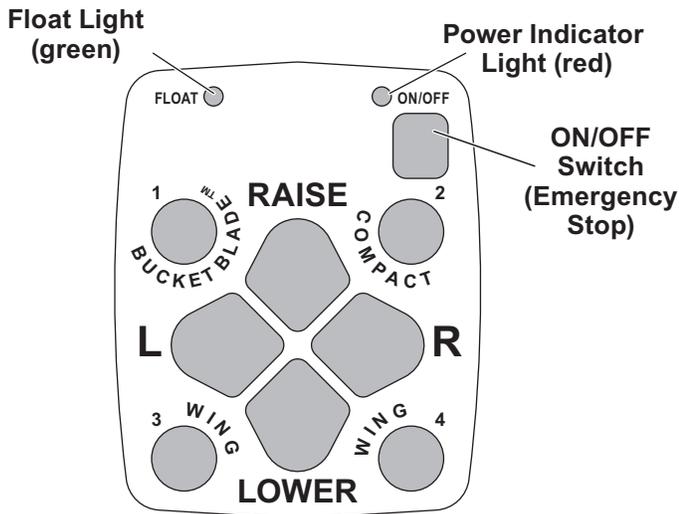
NOTE: If control function times out before desired blade movement is complete, release button and press again.

Automatic Shutdown

The control will automatically turn OFF after being idle for 20 minutes. To reactivate the control after a shutdown, press the ON/OFF button.

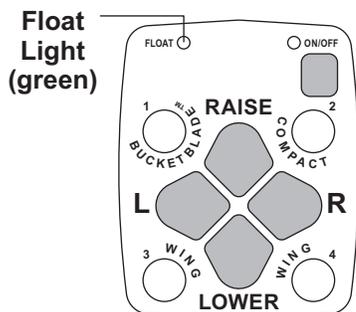
Smooth Stop

The control automatically allows the blade to coast to a stop when the button is released. This results in smoother operation, reduces shock to the hydraulic system and increases hose and valve life.



Control Functions

Raise, Lower, Float, Angle

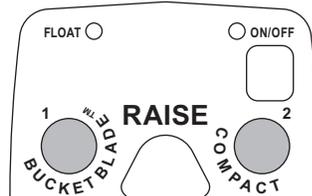


The four diamond-shaped buttons in the center of the control face, when pressed, will result in the following blade movements:

Function	Description of Operation
RAISE	Press this button to raise the snowplow and cancel the FLOAT mode. Function times out after 4.8 seconds.
LOWER	Press this button to lower the snowplow. Release the button to stop blade at desired height.
FLOAT	Press the LOWER button and hold for 3/4 second to activate this mode. The FLOAT indicator light in the upper left corner of the control face will illuminate. The blade will lower to the ground surface and follow the contour of the surface as it dips or raises. Function does not time out; however, control will shut down after 20 minutes of nonuse. Press RAISE button momentarily to cancel FLOAT. Angling left or right will interrupt (stop) FLOAT function, but FLOAT will resume when angling is complete.
L (Angle Left)	Press the L button to move the blade to the angle left position to cast snow to the driver's left side. Function times out after 9.6 seconds.
R (Angle Right)	Press the R button to move the blade to the angle right position to cast snow to the driver's right side. Function times out after 9.6 seconds.
1 & 4	Used to access the SECURITY GUARD™ system activation mode.
2 & 3	Used to clear the entered SECURITY GUARD system code.

NOTE: If control function times out before desired blade movement is complete, release the button and press again.

BUCKET BLADE™ / COMPACT Blade Position

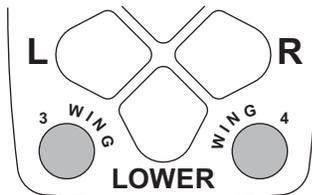


The two round buttons located to the left and right of the RAISE button move both wings at the same time into the following blade positions:

Function	Description of Operation
BUCKET BLADE	Press this button to extend both wings forward into the BUCKET BLADE position. Function times out after 7.25 seconds
COMPACT	Press this button to draw both wings into the fully retracted position. Function times out after 5.5 seconds.

Wing Positions

The two round buttons located to the left and right of the LOWER button move either wing independently of the other as described below.



Function	Description of Operation
L WING	Press the round WING button on the left side of the control to move the left wing. The first time the button is pressed after the control is turned ON or another function is used, the wing will extend. Repeated use of the same button, without using another function, results in movement in the opposite direction from the previous movement. Function times out after 4.5 seconds.
R WING	Press the round WING button on the right side of the control to move the right wing. The first time the button is pressed after the control is turned ON or another function is used, the wing will extend. Repeated use of the same button, without using another function, results in movement in the opposite direction from the previous movement. Function times out after 4.5 seconds.

The SECURITY GUARD™ System

Activation & Establishing a 4-Digit Security Code

NOTE: The snowplow must be attached to the vehicle, and all the electrical connections must be connected prior to activating the security code function.

1. Turn the vehicle ignition switch to the "ON" or "ACCESSORY" position. (It is not necessary to start the vehicle.)
2. Verify the control power indicator is OFF. If the power indicator light is red, the control is ON. Press the ON/OFF button to turn the hand-held control OFF.
3. To activate the SECURITY GUARD mode, press the control #1 button four consecutive times, and then press the #4 button four consecutive times (sequence: 1, 1, 1, 1, 4, 4, 4, 4). The green FLOAT light will flash quickly and the red POWER light will turn ON indicating the system is ready to accept your 4-digit security code.

Enter your 4-digit security code by pressing any of the eight following buttons in any sequence: UP, DOWN, LEFT, RIGHT, 1, 2, 3 or 4.

Once you have entered your 4-digit security code, the FLOAT light will stop flashing and the POWER light will turn OFF. This indicates that your 4-digit security code is entered and stored in the SECURITY GUARD system.

4. Once a 4-digit security code is established and the plow/vehicle electrical connection are lost/disconnected, the SECURITY GUARD system will recognize any control that has been programmed with the same 4-digit security code. Any control not programmed with the correct 4-digit security code will require the user to enter the established security code before activating the snowplow (see the Manual Unlock procedure).

NOTE: If the control POWER button is turned ON prior to completing the programming procedure, your 4-digit security code will be cancelled.

Manual Unlock

If the SECURITY GUARD system is activated and you are using a control with a different 4-digit code than the established security code, you will be required to manually enter the 4-digit security code before operating a locked snowplow.

1. Turn the vehicle ignition to the "ON" or "ACCESSORY" position.
2. Turn the control to the "ON" position.
3. The POWER light will flash rapidly, indicating that the snowplow is locked.
4. Enter the 4-digit security code.
5. After entering the correct security code, the POWER light will change from flashing rapidly to a solid light to indicate the snowplow has been successfully unlocked.

NOTE: If the plow/vehicle electrical connection is lost or disconnected, the SECURITY GUARD system will reset, requiring any control that is not programmed with the established 4-digit security code to manually re-enter the security code to activate the snowplow.

Clearing an Established 4-Digit Security Code

1. Turn the vehicle ignition switch to the "ON" or "ACCESSORY" position.
2. If the snowplow is locked (the control POWER light will be flashing at a fast rate), unlock the snowplow by following the Manual Unlock procedure.
3. Turn the control to the "OFF" position. Verify that the power indicator is OFF.
4. With the control OFF, press the #2 button four consecutive times, and then press the #3 button four consecutive times. This sequence (2, 2, 2, 2, 3, 3, 3, 3) will clear the 4-digit security code from the SECURITY GUARD system. The FLOAT light will flash to indicate that the 4-digit security code was cleared.

NOTE: To enter a new 4-digit security code see Activation & Establishing a 4-Digit Security Code.

Light Flash Indicators

POWER – Red	Function
Off	Control is OFF
Solid On	Control is ON and active
Slow Flash	No communication
Fast Flash	Plow is locked – enter 4-digit security code to unlock

FLOAT – Green	Function
Solid On	Float function is active
Fast Flash	Security code activation in progress

Additional Notes

- The SECURITY GUARD™ system requires any control (other than the one with the assigned 4-digit security code) to enter the security code before the snowplow can be activated. Once the security code is established, the SECURITY GUARD system recognizes that a control with the same security code is attached, and does not require a manual unlock to activate the snowplow. The system will recognize the control as "safe" and will automatically unlock.
- In the event that a snowplow is locked and cannot be manually unlocked or reset, contact your Authorized Distributor.
- REMINDER: Record your security code for future reference.

Blizzard reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications used. Blizzard or the vehicle manufacturer may require or recommend optional equipment for snow removal. Do not exceed vehicle ratings with a snowplow. Blizzard offers a limited warranty for all snowplows and accessories. See separately printed page for this important information. The following are registered (®) or unregistered (™) trademarks of Douglas Dynamics, L.L.C.: BLIZZARD®, BUCKET BLADE™, POWER GRIP™, POWER HITCH™ 2, POWER PLOW®, SECURITY GUARD™.

Printed in U.S.A.
