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**96400 – MVP PLUS™ and
 WIDE-OUT™ Blades**

**JOYSTICK CONTROL KIT w/
 SECURITY GUARD™ System
 Operating Instructions**

A DIVISION OF DOUGLAS DYNAMICS, L.L.C.

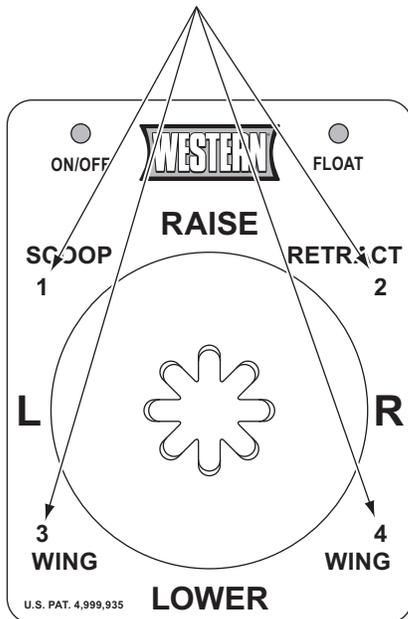
CONTROL OVERVIEW

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.

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

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

**Controls enabled with the
 SECURITY GUARD System
 have numbers 1 through 4
 on the faceplate.**



Before Activating the SECURITY GUARD System:

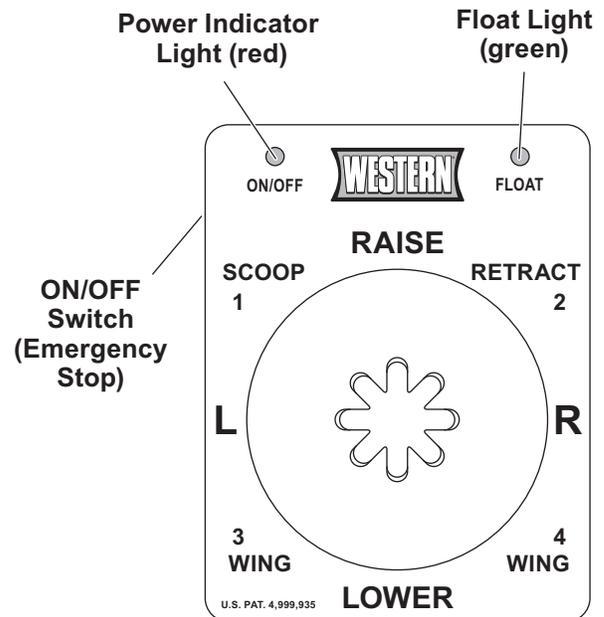
Install the control as stated in the Joystick Control Kit Installation Instructions, and check all plow functions as described below.

OPERATING THE JOYSTICK CONTROL

⚠ WARNING

To prevent accidental movement of the blade, always move the ON/OFF switch to OFF whenever the snowplow is not in use. The power indicator light will turn OFF.

1. Turn the vehicle ignition switch to the "ON" or "ACCESSORY" position.



2. Move the switch on the side of the control to the "ON" position. 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.

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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.

While the operation of the MVP PLUS™ and WIDE-OUT™ controls are the same, the time-outs vary by function.

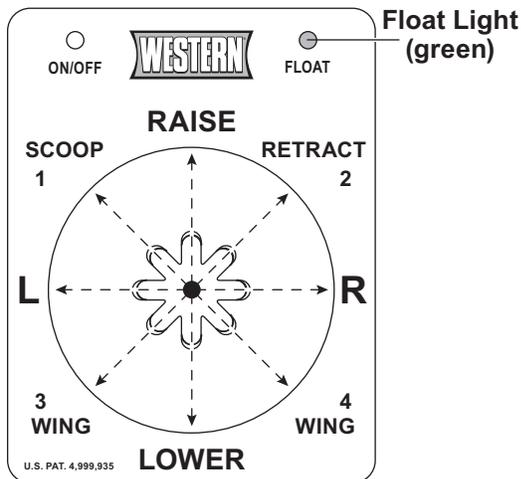
NOTE: If control function times out before desired blade movement is complete, release the lever to the center position, then move back into the desired function.

Automatic Shutdown

The control will automatically turn OFF after being idle for 20 minutes. To reactivate the control after a shutdown, move the ON/OFF switch to OFF, then back to ON.

Smooth Stop

The control automatically allows the blade to coast to a stop when the lever returns to center position. This results in smoother operation, reduces the shock to the hydraulic system and increases hose and valve life.



Control Lever Movement

From the center position, the control lever can be moved in one of eight (8) directions to control various movements of the snowplow blade. To change from one movement of the blade to another, the control lever must be moved back to the center position before selecting the desired function. Whenever the lever is released, it should spring back into the center position to stop any blade movement.

Control Functions

Raise, Lower, Float, Angle

Moving the control lever in straight lines up and down or from side to side on the control body will result in the blade movements described in the following tables.

Function	Description of Operation
RAISE	Move the control lever toward the top of the control body to raise the snowplow and cancel the FLOAT mode. Function times out after 4.0 (MVP PLUS) or 3.5 seconds (WIDE-OUT).
LOWER	Move the control lever toward the bottom of the control body to lower the snowplow. Release the lever to stop blade at desired height.
FLOAT	Move the control lever to the LOWER position and hold 3/4 second to activate this mode. The float light in the upper right 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. Move lever to the RAISE position momentarily to cancel FLOAT.
L (Angle Left)	With wings in a straight line, move control lever straight to the left to move both wings to angle left position. Left wing retracts while right wing extends to cast snow to driver's left side. Function times out after 3.0 (MVP PLUS) or 3.25 seconds (WIDE-OUT).
R (Angle Right)	With wings in a straight line, move control lever straight to the right to move both wings to angle right position. Right wing retracts while left wing extends to cast snow to driver's right side. Function times out after 3.0 (MVP PLUS) or 3.25 seconds (WIDE-OUT).
1 & 4	Used to access the SECURITY GUARD™ system activation mode.
2 & 3	Used to clear the entered SECURITY GUARD system code.

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Scoop/Retract Blade Position

Moving the control lever from center position toward the word SCOOP or RETRACT on the face of the control body will cause both wings to move at the same time into the following blade positions:

Function	Description of Operation
SCOOP	Move control lever toward SCOOP on the control face to extend both wings forward into scoop position. Function times out after 5.0 (MVP PLUS™) or 5.5 seconds (WIDE-OUT™).
RETRACT	Move control lever toward RETRACT on the control face to draw both wings into the fully retracted position. Function times out after 3.0 (MVP PLUS) or 4.5 seconds (WIDE-OUT).

Wing Positions

Moving the control lever from center position toward the word WING on either side of the face of the control body will cause either wing to move independently of the other as described below.

Function	Description of Operation
L WING	Move control lever toward the left side of LOWER on the control face to move the left wing. The first time lever is moved into slot after control is turned ON, or another function is used, wing will extend. Repeated use of the lever in the same slot, without using another function, results in movement in opposite direction from previous movement. Function times out after 3.0 (MVP PLUS), 3.25 (WIDE-OUT – IN) or 3.75 seconds (WIDE-OUT – OUT).
R WING	Move control lever toward the right side of LOWER on the control face to move the right wing. The first time lever is moved into slot after control is turned ON, or another function is used, wing will extend. Repeated use of the lever in the same slot, without using another function, results in movement in opposite direction from previous movement. Function times out after 3.0 (MVP PLUS), 3.25 (WIDE-OUT – IN) or 3.75 seconds (WIDE-OUT – OUT).

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 power indicator light is OFF. If the power indicator light is red, the control is ON. Move the ON/OFF switch to OFF to switch the control OFF.
3. To activate the SECURITY GUARD mode, move the control lever into the #1 position four consecutive times, and then in the direction of the #4 position four consecutive times (sequence: 1, 1, 1, 1, 4, 4, 4, 4). The green float light will flash quickly and the red power indicator light will turn ON indicating the system is ready to accept your 4-digit security code.

Enter your 4-digit security code by moving the control lever into the position of any of the eight following positions: 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 indicator 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 is turned ON prior to completing the programming procedure, your 4-digit security code will be cancelled.

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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. Move the ON/OFF switch to "ON" to turn the control ON.
3. The power indicator 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 indicator 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 indicator light will be flashing at a fast rate), unlock the snowplow by following the Manual Unlock procedure.
3. Move the ON/OFF switch to OFF. Verify that the power indicator light is OFF.

4. With the control OFF, move the control lever to the #2 position four consecutive times, and then to the #3 position 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.

POWER – Red	Function
OFF	Control is OFF
Solid ON	Control is ON and active
Slow Flash	No communication
Fast Flash	Snowplow 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.

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