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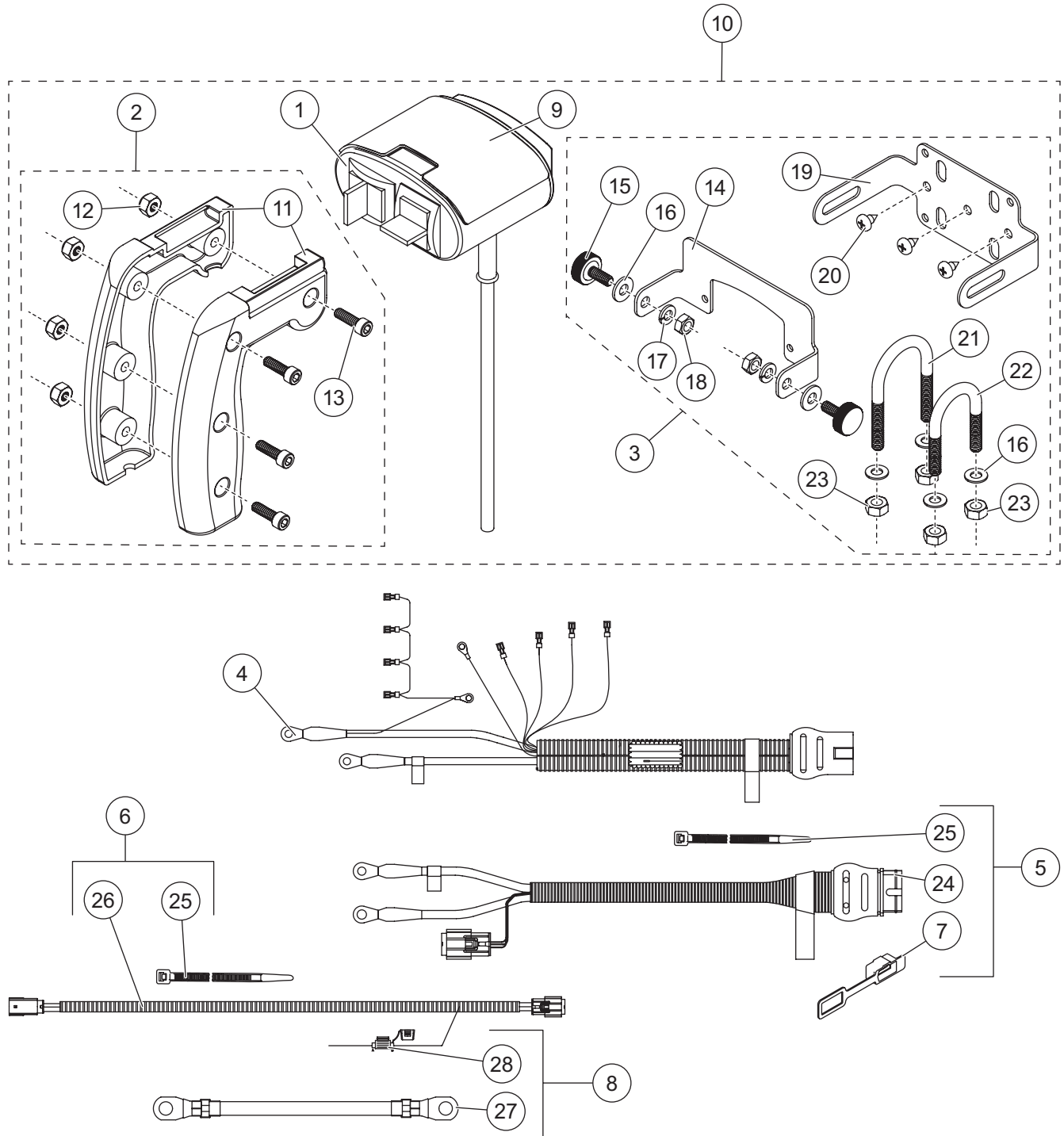
**dd A DIVISION OF DOUGLAS DYNAMICS, LLC**

## 90180 – CONTROL KIT

### Mid-Duty UTV Blades

#### Parts List

#### PARTS LIST



## MID-DUTY SNOWPLOW CONTROL KIT COMPONENTS

90175 Snowplow Control Kit, Mid-Duty UTV							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	90125	1	Hand-Held Control, Mid-Duty UTV (incl. item 9)	6	80266	1	Control Cable Assembly
2	90115	1	Handle Grip Housing Kit	7	99759	1	8-Pin Plug Cover
3	90150	1	Bracket Kit, UTV Snowplow Control	8	90730	1	200A Fuse Kit
4	80202	1	Snowplow Cable Assembly	9	77669	1	Label – Faceplate, MD UTV Control
5	80228	1	Vehicle Cable Assembly	10	97180	1	Snowplow Control Kit, Mid-Duty UTV
Item 2 90115 Handle Grip Housing Kit							
11	91468	1	Handle Housing (2 halves)	13		4	#10-24 x 5/8 Socket Head Cap Screw SS
12		4	#10-24 Hex Locknut GB SS				
Item 3 90150 Bracket Kit, UTV Snowplow Control							
14		1	Bracket – Control	19		1	Bracket – Mounting
15		2	1/4-20 x 5/8 Thumb Screw, Plastic	20		3	#10 PHST x 3/8 Tapping Screw SS
16		6	1/4 Flat Washer SS	21		1	1/4-20 x 1-1/4 x 2-1/4 RD U-Bolt SS
17		2	1/4 Lock Washer SS	22		1	1/4-20 x 1 x 1-3/4 RD U-Bolt SS
18		2	1/4-20 Hex Nut SS	23		4	1/4-20 Hex Locknut GB SS
Item 5 80228 Vehicle Cable Assembly							
7		1	8-Pin Plug Cover	25		10	Cable Tie, 15.35"
24		1	Vehicle Cable				
Item 6 80266 Control Cable Assembly							
25		5	Cable Tie, 15.35"	ns		1	Splice (pkg of 5)
26		1	Control Cable	ns		1	Heatshrink Tubing
Item 8 90730 200A Fuse Kit							
27		1	Cable Assembly, 8"	ns		1	200A Mega Fuse
28		1	Fuse Holder				
Item 10 97180 Snowplow Control Kit, Mid-Duty UTV							
1	90125	1	Hand-Held Control, Mid-Duty UTV	3	90150	1	Bracket Kit, UTV Snowplow Control
2	90115	1	Handle Grip Housing Kit	9	77669	1	Label – Faceplate, MD UTV Control
ns = not shown				SS = Stainless Steel		G = Grade	

## INSTALLATION INSTRUCTIONS

### ⚠ CAUTION

Read this document before installing the control.

### ⚠ CAUTION

Use standard methods and practices when attaching snowplow and installing accessories, including proper personal protective safety equipment.

### ⚠ CAUTION

See your sales outlet/website for specific vehicle application recommendations before installation. The online selection system has specific vehicle and snowplow requirements.

## FUSES

The snowplow electrical and hydraulic systems contain several automotive-style fuses. If a problem should occur and fuse replacement is necessary, the replacement fuse must be of the same type and amperage rating as the original. Installing a fuse with a higher rating can damage the system and could start a fire. Fuse Replacement, including fuse ratings and locations, is located in the Maintenance section of the snowplow Owner's Manual.

**NOTE: The controls do not contain onboard fuses. Consult your snowplow Owner's Manual for fuse replacement. Fuses are located on the vehicle and control harnesses.**

**NOTE: Circuit board may be damaged by static electricity. Always touch ground before handling PC board.**

## Control

### ⚠ WARNING

To prevent accidental movement of the blade, always unplug the control whenever the snowplow is not in use.

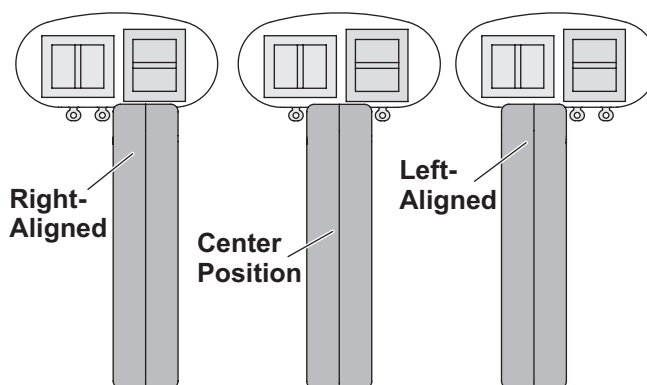
The control is electrically powered through the ignition (key) switch of your vehicle and protected by a replaceable in-line fuse.

The control can be assembled in one of several configurations, depending on your vehicle.

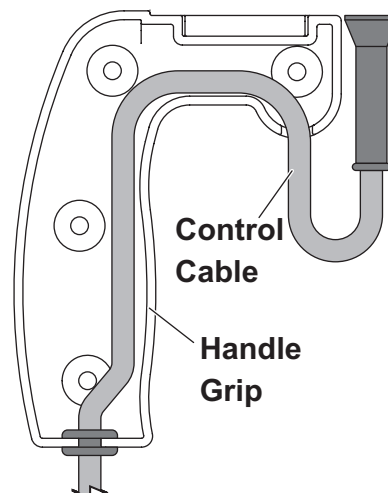
### Hand-Held Control Assembly

1. Choose a position on the control for the handle grip—left-aligned, right-aligned, or center-positioned.

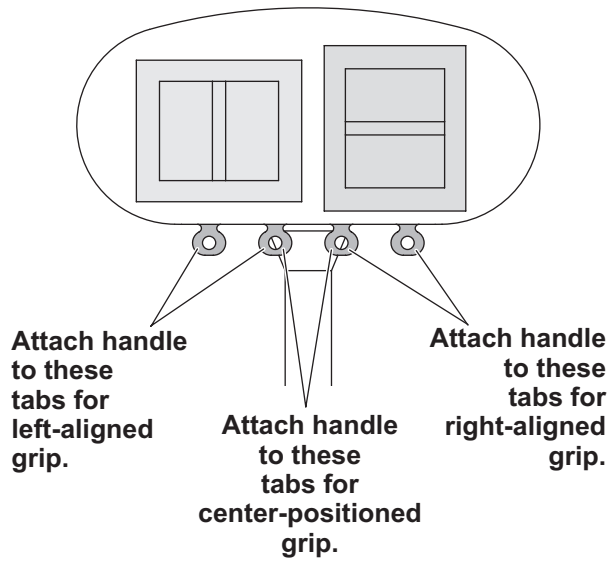
#### Handle Grip Options



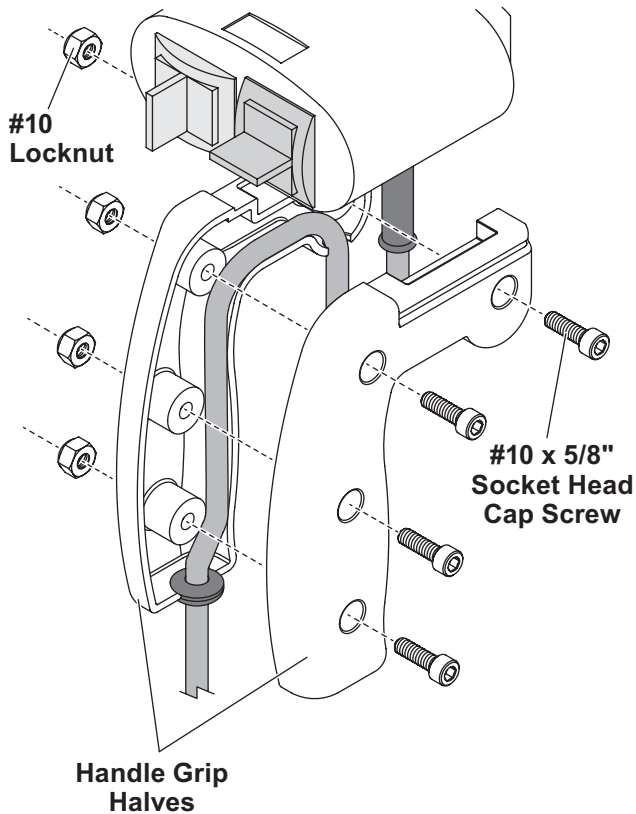
2. Route the control cable through the handle grip as shown.



- With the control cable in place, sandwich the handle grip halves around the pair of tabs corresponding to the desired handle alignment.



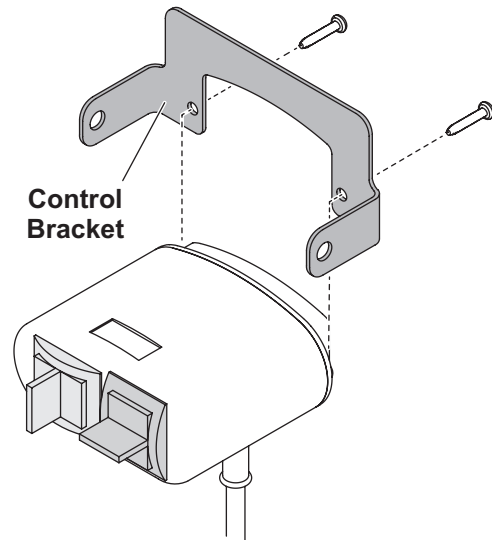
- Secure the handle grip halves with the four socket head cap screws and four locknuts.



### Control Bracket Installation

The control bracket must be installed to the control for the dash and handlebar mounts.

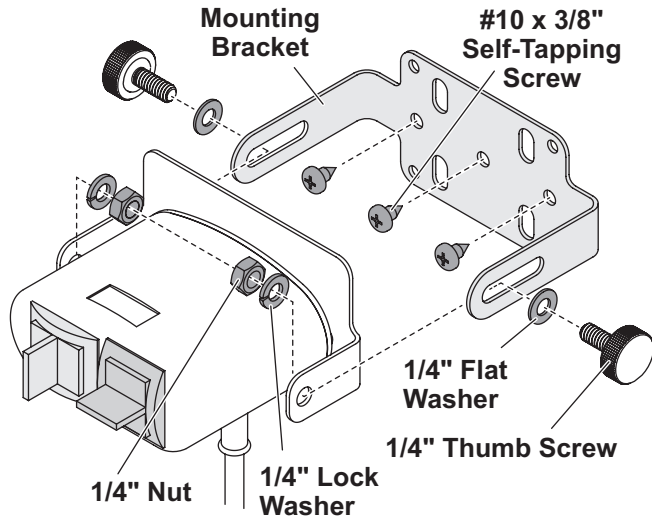
- Remove and retain the two screws from the rear of the control, leaving the rear panel of the control in place.



- Replace the control bracket over the tab on the control's rear panel so that the bracket holes are aligned with the rear panel holes.
- Reinstall the screws, being careful not to overtighten them.

### Dash Mount

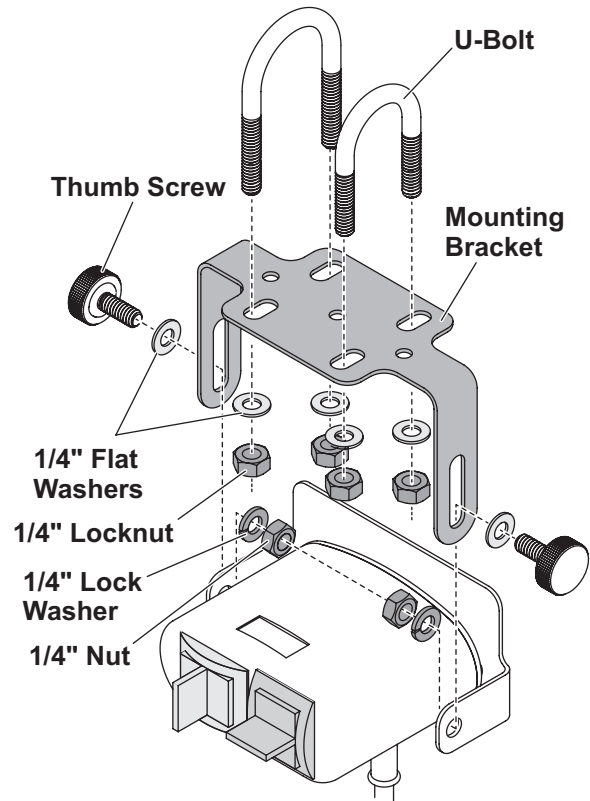
1. Install the mounting bracket to the dash with the three #10 x 3/8" self-tapping screws as shown.



2. Attach the control to the slots in the bracket with two 1/4" thumb screws, two 1/4" flat washers, two 1/4" lock washers, and two 1/4" nuts as shown.


### Handlebar Mount

1. Install the mounting bracket to a handlebar with the two U-bolts, four 1/4" washers, and four 1/4" locknuts.



2. Attach the control to the slots in the bracket with two 1/4" thumb screws, two 1/4" flat washers, two 1/4" lock washers, and two 1/4" nuts as shown.

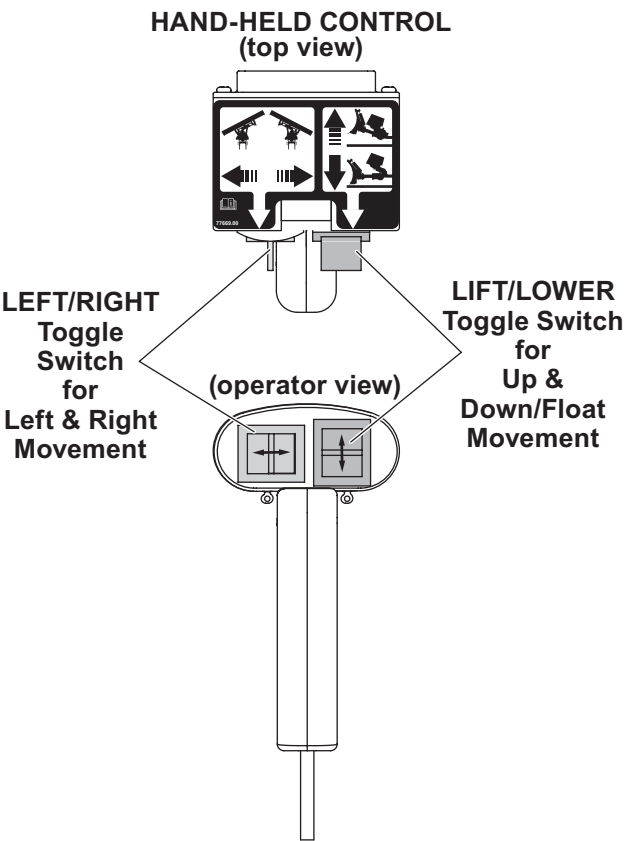
HAND-HELD CONTROL



**WARNING**

To prevent accidental movement of the blade, always unplug the control whenever the snowplow is not in use.

Function	Description of Operation
RAISE	Press the LIFT/LOWER toggle switch UP to raise the blade and cancel the FLOAT mode. Release switch once blade is raised. There is no time out.
LOWER	Press the LIFT/LOWER toggle switch DOWN to lower the blade. Place LIFT/LOWER toggle switch in middle position to stop blade at desired height.
FLOAT	Press the LIFT/LOWER toggle switch DOWN to latching position. The blade will lower to the ground surface and follow the contour of the surface as it dips or rises. This function does not time out. Press the LIFT/LOWER toggle switch UP momentarily to cancel FLOAT. Angling left or right will not interrupt (pause) the FLOAT function. Place LIFT/LOWER toggle switch in middle position to stop blade at desired height.
LEFT (Angle Left)	Press the LEFT/RIGHT toggle switch to the LEFT to move the blade into the angle left position. Release toggle switch when blade is in desired position. There is no time out.
RIGHT (Angle Right)	Press the LEFT/RIGHT toggle switch to the RIGHT to move the blade into the angle right position. Release toggle switch when blade is in desired position. There is no time out.



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