August 1, 2017 Lit. No. 96201, Rev. 07



Hopper Spreader

Control Wiring and Electrical Components

Installation Instructions and Parts List

This document includes Striker[™] and ICE BREAKER[™] harnesses referred to as "11-Pin Harness."

ACAUTION

Read this document before installing the cab control wiring.

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

This Parts List is for WESTERN[®] Striker and ICE BREAKER Spreaders with serial numbers beginning with 0806 and higher.

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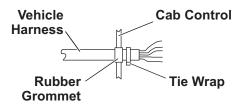
A WARNING

Do not install this product in deployment path of an air bag. Refer to vehicle manufacturer's manual for air bag deployment area(s).

- 1. Remove the cover of the cab control.
- 2. Remove the rubber grommet and pass the vehicle harness through the empty hole in the back of the cab control.

Use tape or grommets to protect the wire harness from abrasion and cutting caused by sharp edges during installation and operation.

3. After the harness is in the control, install a tie wrap around it at the end of the insulation to secure it inside.



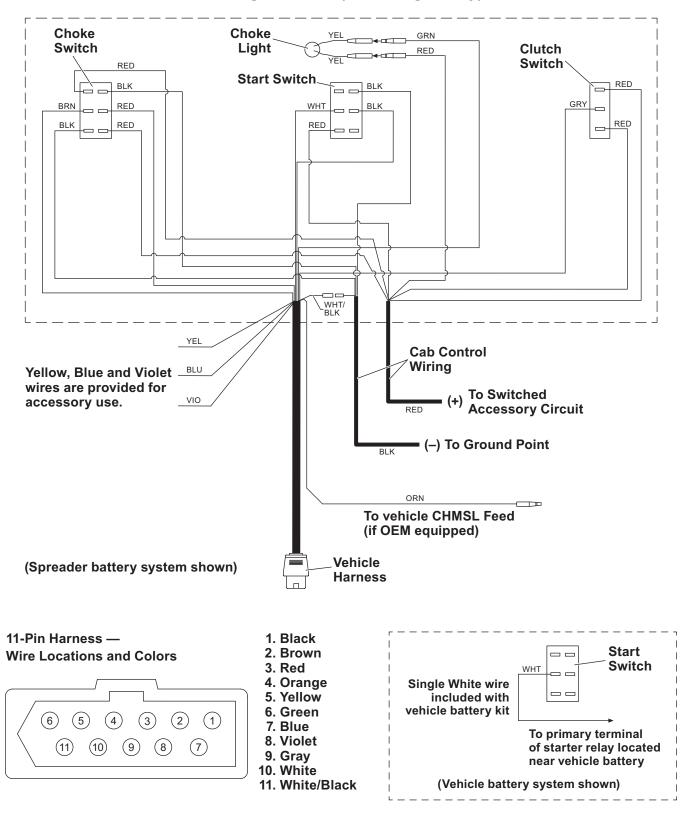
4. Separate the wires and connect/route each wire as described in the following instructions for installations using either a one-light control or a two-light control. Then proceed with Step 5.

Wire Connections for One-Light Control

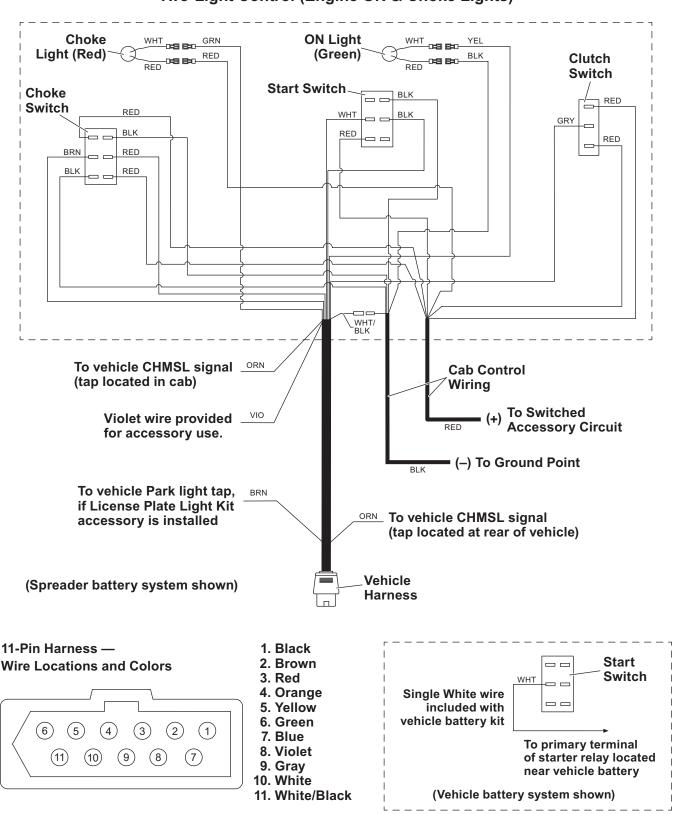
- **Orange** Loop it around and pass it out the large rubber grommet in the back of the cab control.
- **Gray** Connect to the middle terminal of the CLUTCH switch.
- **Black** Connect to the middle right terminal (as viewed from rear) of the "START" switch.
- White For spreader battery system, connect to the middle left terminal (as viewed from the rear) of the "START" switch.

For vehicle battery system, the white wire from the vehicle harness will not be used. Connect the white relay wire (supplied with vehicle battery kit) from the starter relay to the middle left terminal (as viewed from the rear) of the START switch. Also refer to the Vehicle Battery Kit Installation Instructions included with the vehicle battery kit.

- **Brown** Connect to the middle left terminal (as viewed from the rear) of the CHOKE switch.
- **Red** Connect to the middle right terminal (as viewed from the rear) of the CHOKE switch.
- **Green** Connect to the yellow wire of the choke light.
- White/Black Connect to the black cab control ground wire.
- Yellow, Violet, Blue Pass back out of the control. These wires are provided for accessory use.



Cab Control Wiring Diagram — 11-Pin Harness One-Light Control (Choke Light Only)



Cab Control Wiring Diagram — 11-Pin Harness Two-Light Control (Engine ON & Choke Lights)

Wire Connections for Two-Light Control

- **Orange** Loop it around and pass it out the large rubber grommet in the back of the cab control.
- **Gray** Connect to the middle terminal of the CLUTCH switch.
- **Black** Connect to the middle right terminal (as viewed from rear) of the START switch.
- White For spreader battery system, connect to the middle left terminal (as viewed from the rear) of the START switch.

For vehicle battery system, the white wire from the vehicle harness will not be used. Connect the white relay wire (supplied with the vehicle battery kit) from the starter relay to the middle left terminal (as viewed from the rear) of the "START" switch. Also refer to the Vehicle Battery Kit Installation Instructions included with the vehicle battery kit.

- **Brown** Connect to the middle left terminal (as viewed from the rear) of the CHOKE switch.
- **Red** Connect to the middle right terminal (as viewed from the rear) of the CHOKE switch.
- **Green** Connect to the white wire of the choke light (red light).
- White/Black Connect to the black cab control ground wire.
- Violet Pass back out of the control. This wire is provided for accessory use.

Spreader with Briggs & Stratton Engine

- **Yellow** Connect to the white wire of the engine ON light (green light).
- Black from cab control ground harness Connect to the red wire of the engine ON light.

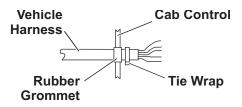
Spreader with Honda Engine

- **Yellow** Connect to the red wire of the engine ON light (green light).
- Black from cab control ground harness Connect to the white wire of the engine ON light.
- 5. Connect the black wire from the cab control to a known ground on the vehicle.
- 6. Connect the red (power) wire to an accessory wire/terminal that is controlled by the vehicle's ignition switch.
- 7. Replace the cab control cover.
- 8. Install the cab control in the cab of the truck, following the instructions packed with the control.

- 1. Remove the cover of the cab control.
- 2. Remove the rubber grommet and pass the vehicle harness through the empty hole in the back of the cab control.

Use tape or grommets to protect the wire harness from abrasion and cutting caused by sharp edges during installation and operation.

3. After the harness is in the control, install a tie wrap around it at the end of the insulation to secure it inside.



- 4. Separate the wires and do the following with each wire:
 - **Orange** Loop it around and pass it out the large rubber grommet in the back of the cab control.
 - **Gray** Connect to the middle terminal of the CLUTCH switch.
 - **Black** Connect to the middle right terminal (as viewed from rear) of the START switch.
 - White For spreader battery system: Connect to the middle left terminal (as viewed from the rear) of the START switch.

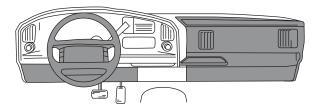
For vehicle battery system: The white wire from the vehicle harness will not be used. Connect the white relay wire (supplied with the vehicle battery kit) from the starter relay to the middle left terminal (as viewed from the rear) of the START switch. Also refer to the Installation Instructions included with the vehicle battery kit.

- **Brown** Connect to the middle left terminal (as viewed from the rear) of the CHOKE switch.
- **Red** Connect to the middle right terminal (as viewed from the rear) of the CHOKE switch.
- **Green** Connect to the yellow wire of the choke light.

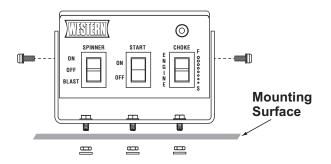
- 5. Connect the black wire from the cab control to a known ground on the vehicle.
- 6. Connect the red (power) wire to an accessory wire/terminal that is controlled by the vehicle's ignition switch.
- 7. Replace the cab control cover.
- 8. Choose a cab control mounting location that can be reached by the harness. The location must be within easy reach of the vehicle operator without restricting access to vehicle controls or instrumentation.

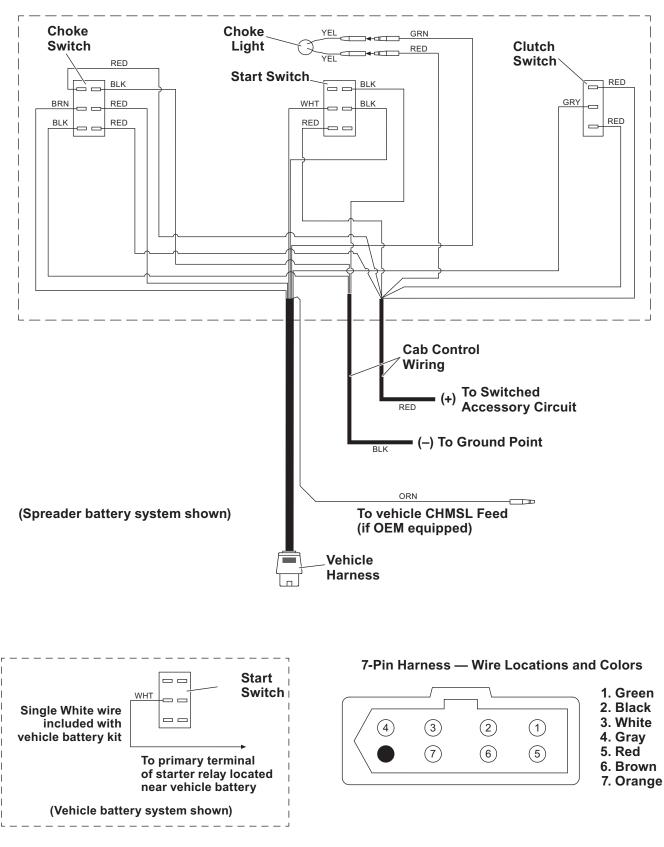
Do not mount the control in areas prohibited by the vehicle manufacturer for reasons of crashworthiness. See the vehicle's body builder's book, owner's manual or service manual for details. The shaded portions in the illustration below show the most commonly restricted areas.

Do not alter, modify, or install additional components in shaded areas shown below. Failure to comply may interfere with airbag deployment or cause injury to operator in an accident.



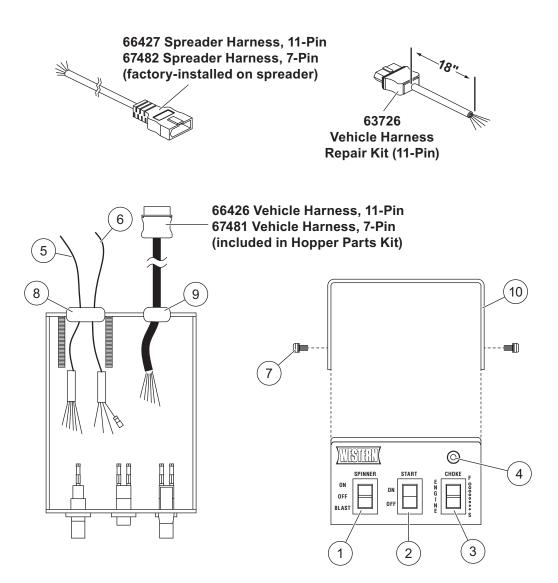
9. Install the control bracket using the supplied mounting bracket or an existing plow control bracket. The control can be either top-mounted or bottom-mounted, as shown in the example.





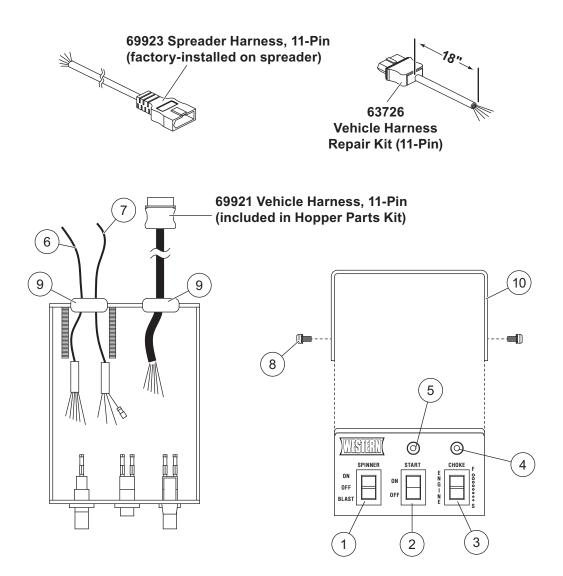
Cab Control Wiring Diagram — 7-Pin Harness

For ICE BREAKER™ and older style hopper spreaders

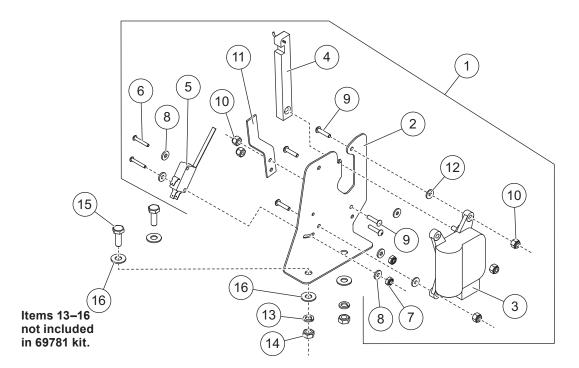


	67530-1 Hopper Spreader Cab Control – 1 Light								
Item	Part	Qty	Description	ltem	Part	Qty	Description		
1	67532	1	Spinner Clutch Switch	7	63930	4	4-40 x 1/4 Pan-Head Machine Screw		
2	67533	1	Ignition Switch	8	66130	1	Rubber Grommet, large		
3	67534	1	Throttle (Choke) Switch	9		1	Rubber Grommet, small		
4	67528	1	Light, 12V Panel Mount (Red)	10	65516	1	Control Bracket Installation Kit		
5	67526	1	Control Harness 12V Positive (Red)				(includes mounting hardware)		
6	66432	1	Control Harness Ground (Black)						

For Striker[™] hopper spreaders



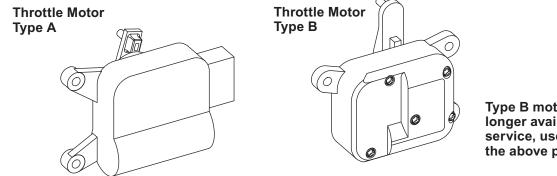
	98985 Hopper Spreader Cab Control – 2 Lights								
Item	Part	Qty	Description	ltem	Part	Qty	Description		
1	99179	1	Spinner Clutch Switch (Black)	7	69922	1	Control Harness Ground (Black)		
2	99178	1	Ignition Switch (Black)	8	63930	4	4-40 x 1/4 Pan-Head Machine Screw		
3	99177	1	Throttle (Choke) Switch (Black)	9	66130	2	Rubber Grommet, large		
4	99175	1	LED, 12V Panel Mount (Red)	10	65516	1	Control Bracket Installation Kit		
5	99176	1	LED, 12V Panel Mount (Green)				(includes mounting hardware)		
6	67526	1	Control Harness 12V Positive (Red)						

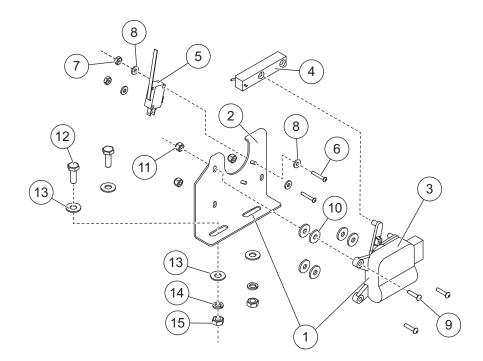


	Electric Throttle Components – Honda Engine								
Item	Part	Qty	Description	Item	Part	Qty	Description		
1	69781	1	Electric Throttle Motor Kit – Honda	10		4	6-32 Hex Locknut GB SS		
			(includes items 2–12)	11	94574-1	1	Throttle Retainer – Honda		
2	69769*	1	Throttle Bracket – Honda	12		3	M5 Flat Washer Regular		
3		1	Electric Throttle Motor – Honda	13		2	1/4 Lock Washer		
4	69767*	1	Electric Throttle Arm – Honda 4"	14		2	1/4-20 Hex Nut G5		
5	68863	1	Choke Light Switch	15		2	1/4-20 x 3/4 Hex Cap Screw G5 SS		
6		2	4-40 x 3/4 Button Cap Screw SS	16		4	1/4 Flat Washer		
7		2	4-40 Hex Locknut GB SS	ns	94573 [†]	1	Throttle Bracket – Honda		
8		4	#4 Flat Washer SS	ns	94572†	1	Electric Throttle Arm – Honda 3-1/4"		
9		4	6-32 x 5/8 Button Cap Screw SS						
	ns =	hown SS = Sta	inless S	steel		G = Grade			

* Used with Throttle Motor type A.

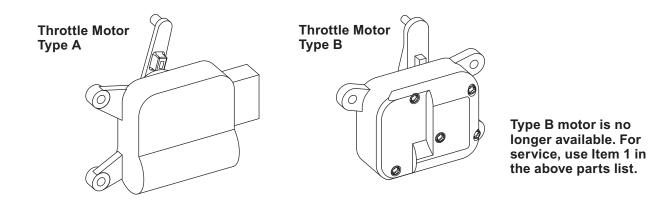
† Used with Throttle Motor type B.

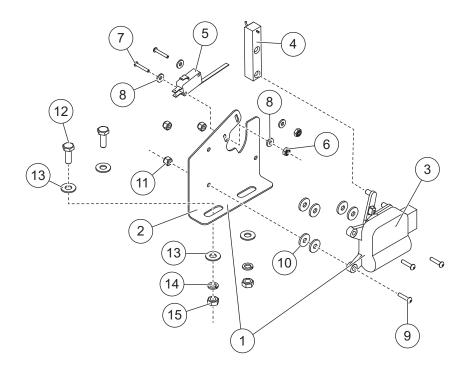




	Electric Throttle Components – Briggs & Stratton Engine								
Item	Part	Qty	Description	ltem	Part	Qty	Description		
1	69782	1	Electric Throttle Motor Kit – Briggs &	8		4	#4 Flat Washer SS		
			Stratton (includes items 2, 3, 10)	9		3	6-32 x 5/8 Button Cap Screw SS		
2	73957*	1	Throttle Bracket – Briggs & Stratton	10		6	M5 Flat Washer Regular		
3		1	Electric Throttle Motor – Briggs &	11		3	6-32 Hex Locknut GB SS		
			Stratton	12		2	1/4-20 x 3/4 Hex Cap Screw G5 SS		
4	65375	1	Electric Throttle Arm – Briggs &	13		4	1/4 Flat Washer		
			Stratton	14		2	1/4 Lock Washer		
5	68863	1	Choke Light Switch	15		2	1/4-20 Hex Nut G5		
6		2	4-40 x 3/4 Button Cap Screw SS	ns	65372-1 [†]	1	Throttle Bracket – Briggs & Stratton		
7		2	4-40 Hex Locknut GB SS						
	ns =	hown SS = Stai	nless S	Steel		G = Grade			

* Used with Throttle Motor type A. † Used with Throttle Motor type B.

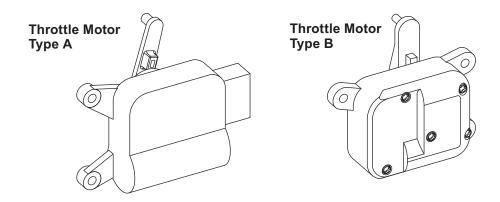




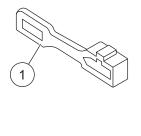
	Electric Throttle Components – Tecumseh Engine								
Item	Part	Qty	Description	ltem	Part	Qty	Description		
1	69783	1	Electric Throttle Motor Kit – Tecumseh	9		3	6-32 x 5/8 Button Cap Screw SS		
			(includes items 2, 3, 10)	10		3	6-32 Hex Locknut GB SS		
2	69788*	1	Throttle Bracket – Tecumseh	11		2	1/4-20 x 3/4 Hex Cap Screw G5 SS		
3		1	Electric Throttle Motor – Tecumseh	12		4	1/4 Flat Washer		
4	65375	1	Electric Throttle Arm – Tecumseh	13		2	1/4 Lock Washer		
5	68863	1	Choke Light Switch	14		2	1/4-20 Hex Nut G5		
6		2	4-40 x 3/4 Button Cap Screw SS	15		6	Flat Washer M5 Regular		
7		2	4-40 Hex Locknut GB SS	ns	68853 [†]	1	Throttle Bracket – Tecumseh		
8		4	#4 Flat Washer SS						
	ns = not shown SS = Sta			nless S	teel		G = Grade		

* Used with Throttle Motor type A.

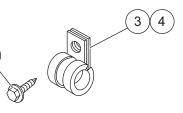
† Used with Throttle Motor type B.



Type B motor is no longer available. For service, use Item 1 in the above parts list.







	Miscellaneous Electrical Components								
Item	Part	Qty	Description	Item	Part	Qty	Description		
1	8291K	1	Plug Cover	ns	67241	1	Clutch Ground Wire		
2	49304K	1	Plug retainer Kit (2 hooks)	ns	67527	1	Choke Switch Ground Wire		
3	65340	AR	Clamp Loop #10	ns	66130	AR	Split Rubber Grommet 3/8 ID		
4	65190	AR	Clamp Loop #6	ns	56099	1	Dielectric Grease Tube		
5	93148	AR	1/4-14 x 3/4 Self-Driving Tap Screw	ns	67537	1	Relay Wire (white) – Premium Control		
		R = As Required	-			ns = not shown			



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