## **BOSS Snowplow - A Division of The Toro Company**

2010 The BOSS Way Iron Mountain, MI 49801-0787 ISO 9001:2015 REGISTERED

Cold Front Technology Signal Tap Locations Revised: 10/14/2024



The introduction of Cold Front Technology on new BOSS products such as the VBX+ requires a hookup of Turn Signal and CHMSL (Center High Mount Stop Lamp) wires. For integrated lighting to function properly, these wires must be hooked to the proper source. The following pages indicate recommended Signal Tap Locations to utilize when installing a BOSS product utilizing Cold Front Technology.

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Model	Years		Signal Location		Vehicle Location	Comments	
iviodei		Right Turn	Left Turn	CHMSL	venicle Location		
	2023-24	Pin 15 of C1005 Inline Connector CLS25 (YE-GY)	Pin 16 of C1005 Inline Connector CLS21 (BU-GN)	F10	Central Junction Box	F51 = CHMSL & Camera assembly	
	2020-22	Pin 15 of C1005 Inline Connector CLS25 (YE-BU)	Pin 16 of C1005 Inline Connector CLS21 (GY)	F25 of F51 (BJB) F7 (BCM)	Battery Junction Box BCM Fuse Box	F25 = Trailer stop/turn fuse for both right and left F51 = CHMSL Fuse is tied into other circuits (rear camera aid/remote trailer camera, TPMS, ···) F7 = Brake Pedal Position Switch	
Ford Super Duty: F250-F550	2017-19	Back of Headlamp	Back of Headlamp	F34 or F72	Battery Junction Box	F34 = CHMSL Fuse is tied into other circuits (rear camera aid/remote trailer camera) F72 = Trailer stop/turn fuse for both right and left	
	2011-2016	F13	F14	F15	BCM Fuse Box	F15 = CHMSL Fuse is tied into other circuits (reversing lamps / dimming of interior mirror)	
	2008-10	Trailer Turn Relay, Right Turn	Trailer Turn Relay, Left Turn	Stop Lamp Relay	Battery Junction Box		
	2021-23	Back of Headlamp	Back of Headlamp	F25 (BJB) F21 (BCM)	Battery Junction Box BCM Fuse Box	F25 = CHMSL Fuse is tied into other circuits (rear camera aid) F21 = Trailer Brake Control Switch	
	2018-20	Back of Headlamp	Back of Headlamp	F14	BCM Fuse Box	F14 = Brake Pedal Position Switch	
Ford F-150:	2015-17	Back of Headlamp	Back of Headlamp	F35 (BJB) F4 of F14 (BCM)	Battery Junction Box BCM Fuse Box	F35 = Trailer Tow Relay F4 & F14 = Brake Pedal Position Switch	
101011 150.	2011-14	F13	F14	F15	BCM Fuse Box	F15 = CHMSL Fuse is tied into other circuits (reversing lamps / dimming of interior mirror)	
	2009-10	Trailer Turn Relay, Right Turn	Trailer Turn Relay, Left Turn	Trailer Turn Relay, Right Turn & Left Turn	Battery Junction Box		
	2008	F36	F42	F36 + F42	Central Junction Box	F36 = Trailer Tow Connector, Park/Stop/Turn Lamp, Rear Right, Multifunction switch F42 = Trailer Tow Connector, Park/Stop/Turn Lamp, Rear Left, Multifunction switch	
	2021-23	Back of Headlamp	Back of Headlamp	F95	Battery Junction Box	Right & Left Turn are in the Fuse Trailer Tow Turn Relays are non-serviceable	
Ford F-650/750 Super Duty:	2020		Does not exist.				
	2016-19	F13	F14	F15	BCM Fuse Box	F15 = CHMSL & Back-up lamps	
	2008-15	Trailer Tow Relay, Right Turn	Trailer Tow Relay, Left Turn	Trailer Tow Relay, Stop Lamps	Auxiliary Junction Box (Trialer Tow)		
Ford Ranger	2019 -23	Trailer Turn Relay, Right Turn	Trailer Turn Relay, Left Turn	Trailer Turn Relay, Right Turn & Left Turn	Battery Junction Box		

Make	Model	Years		Signal Location	Comments	
Make	iviodei	rears	Right Turn	Left Turn	CHMSL	Comments
	2500 3500 4500 5500	2015-2024	Blunt Cut Wire: L318-18T Violet/Brown (Right Turn Signal) Of	Blunt Cut Wire: L317-18T White/Violet (Left Turn Signal)	Blunt Cut Wire: L56 White/Violet (CHMSL Signal)	Turn Signal wires located underneath PDC  CHMSL (L56) is located at Right (Passenger Side), in the second crossmember from Rear to Front
		2013-21	F81	F53	F53 & F81	F53 = Trailer Tow - Left Turn/Stop Lights F81 = Trailer Tow - Right Turn/Stop Lights
		2011-12	Back of Headlight	Back of Headlight	M18	
		2010	N/A	N/A	M27	
		2006-09	F16	F14	F26	
RAM		2002-05	F47	F46	F24	
	1500	2019-23	F10	F09	F09 & F10	F09 = Trailer Tow - Left Turn/Stop Lights F10 = Trailer Tow - Right Turn/Stop Lights
		2014-18	F81	F53	F53 & F81	F53 = Trailer Tow - Left Turn/Stop Lights F81 = Trailer Tow - Right Turn/Stop Lights
		2011-13	N/A	N/A	M1	
		2010	N/A	N/A	M27	
		2006-09	F16	F14	F26	
		2002-05	F47	F46	F24	

Make	Model	Years	Si	Fuse Box		
IVIAKE	Model	rears	Right Turn	Left Turn	CHMSL	Location
		2020-24	F81	F73	F53	Underhood
	2500 & 3500	2015-19	F17	F14	F38	Underhood
		2008-14 (GAS)	F1	F3	F49	Underhood
		2008-14 (Diesel)	F4	F2	F46	Underhood
	1500	2019-23	F81	F73	F53	Underhood
		2014-18	F17	F14	F38	Underhood
GM/GMC		2008-13 (GAS)	F1	F3	F49	Underhood
/WB		2008-13 (Diesel)	F4	F2	F46	Underhood
		2019-24	F81	F73	F53	Underhood
	4500 5500 6500	2010-18				
		2008-09	Fuses not n	Inside Cab		
		2023+	KR63R Trailer Stop Relay	KR63L Trailer Stop Relay	F51	Underhood
	Colorado & Canyon	2019-23	F66	F65	F36	Underhood
		2014-18	F38	F39	F51	Underhood

Make	Model	Years -	Signal Location			Fuse Box	Comments
iviake	iviodei		Right Turn	Left Turn	CHMSL	Location	Connents
	Tundra	2022+	Tap Brown wire going into 81985-34040		Tap R & BR Wire going into 81985-34040 or "Stop Fuse"	Under Interior Instrument Panel	Need to access Towing Converter Realy 81985-34040 Remove passenger side rear seat Remove both driver and passenger back wall panel. The driver's side over laps with the passenger side panel. Pull back white insulation and relay will be toward the bottom corner of the passenger side.
Toyota		2013-21	Back of Right Turn/Park Light	Back of Left Turn/Park Light	F22?	Instrument	MSC05665 = 2007-13 MSC18255 = 2018-2021 Both of these HLAs were able to use direct signal to get turns.
	Tacoma	2016-23	Back of Right Turn/Park Light	Back of Left Turn/Park Light	F28	Engine Fuse Panel	
	racollid	2005-15	Back of Right Turn/Park Light	Back of Left Turn/Park Light	?		

Make	Model	Voors		Fuse Box	Comments		
IVIAKE	iviodei	Years	Right Turn	Left Turn	CHMSL	Location	Comments
	Titan	2020+	Trailer Turn Relay 24 - Right	Trailer Turn Relay 25 - Left	Fuse 27	Glove Compartment	
Nissan		2016-19	Trailer Turn Relay 23 - Right	Trailer Turn Relay 22 - Left	Fuse 27	Glove Compartment	
		2004-15	Relay 9 Trialer Turn Left	Relay 8 Trialer Turn Left	Trailer Turn Relays Or Fuse 17	Passenger Side Compartment	
	Frontier	2022+	Trailer Turn Relay 23 - Right	Trailer Turn Relay 22 - Left	Trailer Turn Relays		
		2009-21	Trailer Turn Relay 1 - Right	Trailer Turn Relay 11 - Left	Trailer Turn Relays		