

SS 1034226 New Cascadia Adding Daytime Running Lights (DRL) Or Adding Low Speed DRL Interrupt

Applicable Vehicles:

This solution applies to all New Cascadia Vehicles.

Issue:

The Customer Assistance Center (CAC) has received several requests pertaining to Daytime Running Lights (DRL) operation. In most cases, the request is to add low speed DRL interrupt. Currently (4/16/2019), Canada-domiciled vehicles require continuous DRL and regulation prohibits DRL interruption at any speed. For U.S.-domiciled vehicles, DRL are not required by regulation but all New Cascadia vehicles come standard with DRL. U.S.-domiciled New Cascadia vehicles may be deployed in applications (ex. fuel tankers) where local circumstances (ex. fuel island safety rules) require the ability to interrupt DRL (if present) under certain operating conditions.

Solution:

Since DRL comes standard on all New Cascadia vehicles, it is rare that a request is submitted to add DRL. The SSAM parameter to enable DRL is 043 447 21 58--PARM-SSAM, ELC, DRL, ENABLE. For New Cascadia vehicles requesting reconfiguration to the factory-available low speed DRL interrupt function (allows manual deactivation if vehicle speed is less than 10 mph and automatically reactivates when vehicle speed exceeds 10 mph), the following part and programming are required.

This switch and parameter reconfiguration are to be applied to only a U.S.-domiciled vehicle for which continuous DRL operation conflicts with an application-specific safety requirement unforeseen at the time the vehicle was ordered.

Part number	Description
	Quantity
A06-90128-008	SW-MSF,MUX,DRL OFF (Switch ID 26)
1	
030 447 24 58	PARM-SW,MUX,DRL OFF
	Reference Only

The "DRL Off" switch is a manual momentary switch that will disengage DRL only if vehicle speed is below 10 mph. The DRL will remain off until being automatically reengaged once the

vehicle speed is 10 MPH or greater. Overall, DRL operation automatically disengages anytime engine speed drops below 300 RPM or when the park brake is applied

Additional Information:

Current operation for Halogen headlights uses the front turn signals for DRL. For LED headlights, DRL are activated using the light located just above the headlights (this is referred to in the driver's manual as the Accent / Park location). It is not the same lighting as used for Accent / Park, but it is the same location.

Future releases of the SSAM hardware and software will allow for more programing options for the DRL features.

English (United States) troubleshooting content (DDC-SVC-MAN-0084, DDC-SVC-MAN-0191, DDC-SVC-MAN-0193, DDC-SVC-MAN-0200, DDC-SVC-MAN-0184, DDC-SVC-MAN-0149, DDC-SVC-MAN-0015, DDC-SVC-MAN-0010, DDC-SVC-MAN-0009, DDC-SVC-MAN-0000, New Cascadia Electrical Systems and Troubleshooting Manual) is more than 14 days old and should be refreshed. This requires an internet connection and may take a few minutes. Click here to refresh this content now.

Parameter	Part	Value	Units	Minimum	Maximum	Description
SSAM02T - Single SAM						
MSC - HW Config	A0314472558-001	MSC HW Config - Default				
MSC MSF Mapping table	A0304470958-002	MSC MSF Mapping Table - Default 002				
MSC MSF Modular switch field	A0304471158-001	MSC MSF Modular Switch Field - Default				
MSC MSF Vehicle Config	A0304471058-001	MSC MSF Vehicle Config - Blank				
Switch_001	A0304471258-001	Switch Defined Location - Dash				
Switch_002	(from parent)	Switch Not Present				
Switch_003	(from parent)	Switch Not Present				
Switch_004	(from parent)	Switch Not Present				
Switch_005	A0304471658-001	Switch Defined Location - Dash				
Switch_006	A0304471258-001	Switch Defined Location - Dash				
Switch_007	(from parent)	Switch Not Present				
Switch_008	A0304472258-001	Switch Defined Location - Dash				
Switch_009	(from parent)	Switch Not Present				
Switch_010	A0304473658-001	Switch Defined Location - Sleep...				
Switch_011	A0304473458-001	Switch Defined Location - Sleep...				
Switch_012	(from parent)	Switch Not Present				
Switch_013	(from parent)	Switch Not Present				
Switch_014	A0304472658-001	Switch Defined Location - Sleep...				
Switch_015	A0304471458-001	Switch Defined Location - Dash				
Switch_016	(from parent)	Switch Not Present				
Switch_017	(from parent)	Switch Not Present				
Switch_018	(from parent)	Switch Not Present				
Switch_019	(from parent)	Switch Not Present				
Switch_020	(from parent)	Switch Not Present				
Switch_021	(from parent)	Switch Not Present				
Switch_022	(from parent)	Switch Not Present				
Switch_023	A0304474058-001	Switch Defined Location - Dash				
Switch_024	(from parent)	Switch Not Present				
Switch_025	(from parent)	Switch Not Present				
Switch_026	(from parent)	A0304472458-001 DRL Off Switch - Present				
Switch_027	A0304473658-001	A0304472558-001 DRL Off Switch - Not Present				
Switch_028	A0304472658-001	Switch Defined Location - Dash				
Switch_029	A0304474258-001	Switch Defined Location - Dash				
Switch_030	(from parent)	Switch Not Present				

Enable this SSAM parameter to get the DRL disable switch to function
A0304472458-001 DRL Off Switch - Present

Switch P/N A06-90128-008

DRL OFF

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Identification

Fault Codes

Troubleshooting

Instrumentation

Service Routines

I/O Control

Parameters

Program Device

Flash

Application Status

English (United States) troubleshooting content (DDC-SVC-MAN-0084, DDC-SVC-MAN-0191, DDC-SVC-MAN-0193, DDC-SVC-MAN-0200, DDC-SVC-MAN-0184, DDC-SVC-MAN-0140, DDC-SVC-MAN-0015, DDC-SVC-MAN-0010, DDC-SVC-MAN-0009, DDC-SVC-MAN-0000, New Cascadia Electrical Systems

Engine Protection Engine Protection Engine Protection Fan Fan Fleet Management Fleet Management Fleet Management Fuel Economy Fuel Economy Fuel Economy Global Variant Coding Green House Gas Emissions Group Coding Strings

ICUC Device Variants Idle and PTO Shutdown Idle and PTO Shutdown Idle and PTO Shutdown Initialize Truck Data Center Inputs and Outputs Inputs and Outputs Inputs and Outputs Optimized Idle Optimized Idle Optimized Idle Progressive Shift Progressive Shift Progressive Shift

PTO PTO PTO Speed Limiter Speed Limiter Speed Limiter Speed Limiter Speed Limiter Speed Limiter

All Parameters BHM Circuit Information BHM Feature Configuration Compare Parameters Compare Server Data Cruise Control Cruise Control Cruise Control DPF History DPF History DPF Summary Data Engine Brake Config Engine Brake Config Engine Brake Config Engine Brake Config

Parameter	Part	Value	Units	Minimum	Maximum	Description
SSAM02T - Single SAM						
ASC Comfort Locking Acoustic Feedback	A033447058-001	ASC Comfort Locking Acoustic - Disabled				
ASC - Continued	A043447358-001	ASC Continued - Default				
ASC Horn Primary and Secondary	A0434474058-001	ASC Horn Primary Secondary - No Virtual Sw				
ASC - HW Config	A033447458-001	ASC HW Config - Default				
BSC - HW Config	A033447458-001	BSC HW Config - Default				
BSC Park Brake	A043447458-001	BSC Park Brake - LG3				
BSC Park Brake Drag	A043447458-002	BSC Park Brake Drag - LG3 002				
BSC Service Brake	A033447458-002	BSC Service Brake - Default 002				
BSC Service Brake Inspections	A043447758-001	BSC Service Brake Inspection - LG3				
CCS - HW Config	A033447458-001	CCS HW Config - Default				
DBC Heated mirrors	A0314474058-001	DBC Heated Mirrors - Enabled				
DBC - HW Config	A033447458-002	DBC HW Config - Default 002				
DGM - HW Config	A033447758-002	DGM HW Config - Default 002				
ELC Backup lighting	A043447258-001	ELC Backup Lighting - LG3				
ELC Camouflage	A0314476758-001	ELC Camouflage Mode - Disabled				
ELC - Continued	n/a					
PELC_lic_timer	A0434472058-001	0.00	s	0.00	655.35	
PELC_hls2_jhc_min_off	n/a	0.00	s	0.00	600.00	
PELC_hls2_jhc_available	A0434471758-001	Not present				
PELC_hls1_ml_turn_light_dep	A0434472758-001	Off				
PELC_hls1_ml_flashing_enable	A0434472958-001	Disabled				
PELC_drl_enable	A0434472258-001	A0434472258-001 PELC DRL - I				
PELC_ul_LoadShed	n/a	A0434472158-001 PELC DRL - Enabled		0	12	
PELC_ul_PredictMId	n/a	A0434472258-001 PELC DRL - Disabled				
PELC_ul_TripMId	n/a	Not active				
PELC_drl_camouflage_mode	n/a	Function keep value				
PELC_turn_aribag	A043447458-001	Not present				
PELC_lic_enable	A0434472458-001	Not available				
ELC Cornering light	A031447658-001	ELC Cornering Light - Disabled				
ELC Daytime running lights	A031447658-001	ELC DRL - Halogen Standard Combo Turn				
PELC_drl_config	(from parent)	1.0	NoUnit	0	65534	
PELC_drl_engine_speed	(from parent)	300.0	rpm	0.0	8031.9	
PELC_drl_marker_percent	(from parent)	100.0	%	0.0	100.0	
PELC_drl_speed_activation	(from parent)	2.49	mph	0.00	4072.16	

Connections

Single SAM

SSAM02T: Offline

DRL Enable Programming A0434472158-001