

DIODE DYNAMICS

PERFORMANCE LIGHTING TECHNOLOGY

Ford F-150 Elite Headlight Programming Guide

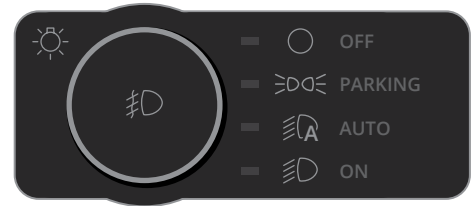
Keep this programming guide in your glove box to reference when programming your headlights.

Programming Tips:

- Parking in front of a window or reflective wall makes it easier to see what's happening!
- While it seems like a lot of information, the programming method follows a standard theme. After just a few minutes, you'll get the hang of it! **Please contact Diode Dynamics with any questions.**
- Always start with the vehicle off, and with headlight switch turned to the **OFF** position. Sometimes, when you enter or exit the truck, lights will stay on for 10-15 seconds. Wait until all of these lights have turned off.
- To enter any programming mode, you must flash your lights off and back on a specific number of times. If you forgot the count, switch the lights off and wait 10 seconds, then start again.
- Some programming modes use the high beam stalk to toggle through options. Due to the factory high beam functionality, the high beam may stay on after you reach your desired configuration, even after switching the light switch to **OFF**. If this is the case, wait 10-15 seconds until the high beams turn off by themselves. If you attempt to turn the high beams off with the stalk, the configuration will not be properly saved.

MODE 3: DRL Color and Style

1. Turn all lights off, including off-road switch (if applicable).
2. Quickly toggle the headlight dial between **OFF** and **PARK** three times, leaving it on park the third time. (○ ➤○○○ ○ ➤○○○ ○ ➤○○○)
3. The DRL will flash three times to indicate you have entered programming mode 3. The current configuration will be displayed.
4. Using the stalk on your steering wheel, flash your high beam to cycle through DRL styles. Each time you cycle to the next option, the DRL will flash three times, and then display your selection.
5. When you've reached the desired DRL style, turn the headlight switch off. If the high beams stay on, wait 10-15 seconds for them to shut off automatically. When all lights have shut off, the configuration will be saved and you have exited programming mode. Repeat this process to select a new configuration.



CONFIGURATION	OUTER DRL COLOR	DRL BAR COLOR
1 (default)	White	White
2	Amber	Amber
3	White	OFF
4	Amber	OFF

MODE 4: Turn Signal Style

1. Turn all lights off, including off-road switch (if applicable).
2. Quickly toggle the headlight dial between **OFF** and **PARK** four times, leaving it on park the fourth time. (○ ➤○○○ ○ ➤○○○ ○ ➤○○○ ○ ➤○○○)
3. The DRL will flash four times to indicate you have entered programming mode 4. The current configuration will be displayed.
4. Using the stalk on your steering wheel, flash your high beam to cycle through turn signal styles. Each time you cycle to the next option, the DRL will flash three times, and then begin flashing in the style you selected.

NOTE: For style 2 and 3, the outer DRL does not blink with the turn signal. For these styles, the outer DRL will dim during the day while the turn signal is activated.

5. When you've reached the desired turn signal style, turn the headlight switch off. If the high beams stay on, wait 10-15 seconds for them to shut off automatically. When all lights have shut off, the configuration will be saved and you have exited programming mode. Repeat this process to select a new configuration.

TURN SIGNAL STYLE	EFFECT
1 (default)	Outer DRL blinks with sequential turn bar
2	Outer DRL does not blink, static turn bar
3	Outer DRL does not blink, sequential turn bar
4	Outer DRL blinks with static turn bar

MODE 5: Welcome Sequence On or Off

1. Turn all lights off, including off-road switch (if applicable).
2. Quickly toggle the headlight dial between **OFF** and **PARK** five times, leaving it on park the fifth time. (○ ➤○○○ ○ ➤○○○ ○ ➤○○○ ○ ➤○○○ ○ ➤○○○)
3. The DRL will flash five times to indicate you have entered programming mode 5. The current configuration will be displayed.

See back for further instructions.

4. Using the stalk on your steering wheel, flash your high beam to turn the welcome sequence on or off. It is on by default. The DRL will flash five times to indicate the change. If the sequence is set to **ON**, it will begin running to indicate the selection. If it is set to **OFF**, the parking lights will illuminate without animation.

5. When you've reached the desired setting, turn the headlight switch off. If the high beams stay on, wait 10-15 seconds for them to shut off automatically. When all lights have shut off, the configuration will be saved and you have exited programming mode. Repeat this process to select a new configuration.

MODE 6: High Beam Boost (HBB) Setting (Elite Max Only)

The High Beam Boost feature is a supplemental high beam, which can be configured to turn on any time your high beams are activated. Please check state and local laws for suitability prior to enabling this feature.

1. Turn all lights off, including off-road switch (if applicable).
2. Quickly toggle the headlight dial between **OFF** and **PARK** six times, leaving it on park the sixth time. (○▷▷▷○▷▷▷○▷▷▷○▷▷▷○▷▷▷○▷▷▷)
3. The DRL will flash six times to indicate you have entered programming mode 6. The current configuration will be displayed.
4. Using the stalk on your steering wheel, flash your high beam to turn the high beam boost feature off or on. It is off by default. The DRL will flash six times to indicate the change. The high beam boost LED pod will turn on or off to indicate the current setting.
5. When you've reached the desired setting, turn the headlight switch off. If the high beams stay on, wait 10-15 seconds for them to shut off automatically. When all lights have shut off, the configuration will be saved and you have exited programming mode. Repeat this process to select a new configuration.

MODE 7: Low Beam Assist (LBA) Setting (Elite Max Only)

The Low Beam Assist feature is a supplemental low beam, which adds width to the low beam pattern. It can be configured to turn on automatically with low beams, while turning (cornering), or not at all, based on your desired light output while driving.

NOTE: Cornering setting will activate the LBA with steering angle (mid and premium trims) or with turn signal function (base trims).

1. Turn all lights off, including off-road switch (if applicable).
2. Quickly toggle the headlight dial between **OFF** and **PARK** seven times, leaving it on park the seventh time. (○▷▷▷○▷▷▷○▷▷▷○▷▷▷○▷▷▷○▷▷▷○▷▷▷)
3. The DRL will flash seven times to indicate you have entered programming mode 7. The current configuration will be displayed.
4. Using the stalk on your steering wheel, flash your high beam to change the setting. The LBA is on full-time with the low beam by default. The DRL will flash seven times to indicate the change, and then display the feedback as listed, to indicate theselected setting.
5. When you've reached the desired setting, turn the headlight switch off. If the high beams stay on, wait 10-15 seconds for them to shut off automatically. When all lights have shut off, the configuration will be saved and you have exited programming mode. Repeat this process to select a new configuration.

MODE	PROGRAMMING FEEDBACK	LOW BEAM ASSIST FUNCTION
On with low beams	LBA 100% brightness	Full brightness with low beams
OFF	Offroad lamps dimly lit	OFF
Cornering (default)	LBA repeatedly pulsing	Base Trim: Full Brightness with turn signal function
		Mid Trim: Full brightness with turn signal function and steering angle

SHOW MODE (Elite Max Only)

1. Turn on the off-road switch.
2. Quickly toggle the headlight dial between **OFF** and **PARK** three times, leaving it on park the third time. (○▷▷▷○▷▷▷○▷▷▷)
3. Show mode will begin. Show mode will always start by displaying the welcome sequence on a loop.
4. Using the stalk on your steering wheel, flash your high beam to cycle through show mode options as shown.
5. To exit show mode, turn the off-road switch off.

MODE #	EFFECT
1	Welcome Sequence (cycle repeats)
2	White Strobe (2 rapid pulses with a delay; repeats)
3	Amber Strobe (2 rapid pulses with a delay; repeats)
4	White/Amber Alternating Strobe (2 rapid pulses in white, 2 rapid pulses in Amber; repeats)

FACTORY RESET:

If you encounter any unplanned behavior in the functionality or settings of your lights, we would suggest completing the factory reset sequence, and re-programming as desired.

1. Turn all lights off, including off-road switch (if applicable).
2. Quickly toggle the headlight dial between **OFF** and **PARK** fifteen (15) times, leaving it on park the final time.
3. The turn signal bars will flash white twice, then amber twice, to indicate a successful factory reset.
4. Shut all lights off, then proceed with programming again as desired.

This installation guide is for the following SKUs:
DD5167 Ford F-150 Elite Max Headlight
DD5168 Ford F-150 Elite Headlight