



This one page contains all of the essential info for day-to-day use of the SynapZe! Print just this page and keep it in your vehicle.



**Z AUTOMOTIVE**  
Electronic Performance Modifications

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## User Guide

For Firmware 27.0.3

The **Z Automotive SynapZe** is a programming, diagnostic, mode memory and security device. It is compatible with the following **AWD** vehicles:

**2025-Current** Dodge Ram 1500 (RHO, TRX, Limited, Longhorn, Tungsten, Tradesman, Big Horn, Lone Star, Warlock, Laramie, Rebel, Express)

### Firmware Updates

NEW FIRMWARE IS AVAILABLE PERIODICALLY, ALWAYS FREE AND [POSTED TO THE Z AUTOMOTIVE WEBSITE](#). —

This guide is a work in progress. Reach out to [support@zautotech.com](mailto:support@zautotech.com) for any questions about this new product!

## Menu Navigation & Shortcuts

The SynapZe menu is accessed **ONLY** from the **AUDIO** page of the dashboard **EVIC** screen. The Ignition must be in the **RUN** position with the **engine ON or OFF**.

| Function                                                                                                                                                                                                               | Button Input                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| OPEN MENU<br>(Starting from "Read DTCs")                                                                                                                                                                               | <b>CRUISE CANC (HOLD 4-5s)</b><br>Watch for "UP=Select" to appear on the dashboard EVIC screen.    |
| SCROLL MENU<br>OR<br>BACK OUT OF SUBMENU                                                                                                                                                                               | <b>CRUISE CANC (TAP)</b><br>Menu will also time out after inactivity.                              |
| SELECT MENU OPTION                                                                                                                                                                                                     | <b>Set+ (TAP)</b>                                                                                  |
| CHANGE VALUE (AMBER DRL SETTING ETC.)<br>OR<br>SCROLL RESULTS (READ DTCs ETC.)                                                                                                                                         | <b>Set+ (or RES) &amp; Set- (TAP)</b>                                                              |
| ForceRWD <ul style="list-style-type: none"><li>while not in Park "Shift out of Park"</li><li>once per drive cycle "Re-start"</li><li>wait 3 seconds after vehicle start</li><li><b>NOT LOCATED IN A MENU</b></li></ul> | <b>4WD-Auto (HOLD 3s)</b> to activate "Engaged"<br><b>4WD-Auto (Tap)</b> to deactivate "Cancelled" |

## Main Menu

- **"Read DTCs"** select to view any error codes in the

Powertrain Control Module (PCM)  
Transmission Control Module(TCM)  
Drivetrain Control Module (DTCM)  
Auto Gear Selector Module (AGSM)  
Active Dampening Control Module (ADCM)  
Brake System Control Module (BSCM)  
Body Control Module (BCM)  
Instrument Panel Cluster (IPC)  
Radio Frequency Hub (RF HUB)

- **"Clear DTCs"** select to clear any error codes in those same modules (**engine OFF**)
- **Settings Submenu** "Settings" select to enter the Settings Submenu
- **Security Submenu** "Security" select to enter the Security Submenu **AFTER** entering your Security Code. (**The default Security Code is Set +, Set +, Set -, Set -**)
- **Firmware Version Display** "—XX.XX.XX" displays the currently installed firmware version

## Settings Submenu

- **"AmberDRL" (RHO, TRX, Limited, Longhorn, Tungsten with Smart Headlights)** select this setting to configure your vehicle's Smart Headlights to behave in these user-selectable ways. Scroll

through these options with the arrows as described above:

**White:** Stock behavior. DRLs stay white  
**Day:** DRLs will be amber when the headlights are off and white when the headlights are on  
**Night:** DRLs will be amber when the

headlights are on and white when the headlights are off

**Both:** DRLs will be amber at all times

- **"DarkPark"** set to ON for DRLs to remain off while in Park
- **"WhiteLines"** set to OFF to disable white parking/marker lamps

## Security Submenu

The default Security Code is Set +, Set +, Set -, Set -

- **"PIN Lock"** select to toggle the the PIN Lock on or off
- **DISABLE BEFORE DEALER SERVICE**
- **Change Security Code "ChangeCode"** select this option to update the security code. You will first be prompted to enter your original code, then the new one

you would like to change it to twice to confirm. (**The default Security Code is Set +, Set +, Set -, Set -**)

- Set a four-button sequence from any of the following steering wheel buttons: **▲, ▼, ◀, ▶, OK, Set+, Set-, RES**
- **When you've entered the code the second time, it is saved.**

**When the PIN Lock is enabled, the SynapZe will shut down ignition on vehicle start and prompt you to enter the PIN from the EVIC dashboard screen (if dash is on AUDIO). Enter the PIN to start the truck normally. If the PIN is entered incorrectly, you will get a "Wrong PIN/Try Again" message and return to PIN entry.**

## Memory Functions

**Both of these functions are not located in a menu and may take a few moments to kick in after vehicle start.**

- **Auto Stop/Start Disable:** The SynapZe will **automatically** remember the On/Off state of the Auto Stop/Start button when you turn the vehicle off.

- **Drive Mode Memory:** The SynapZe will **automatically** remember the currently selected Drive Mode when you turn the vehicle off.
- **RWD Memory:** The SidewayZ will **automatically** remember if the vehicle is in RWD when you turn the vehicle off.



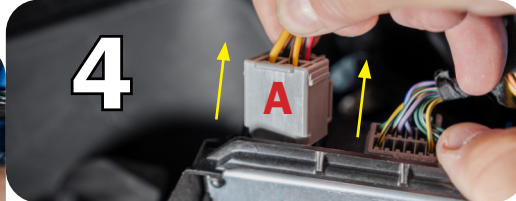
- Remove the two pieces of trim shown near the passenger-side front door.



- Move toward the passenger footwell and remove the single bolt on the passenger-side wall which secures the DTCM module.



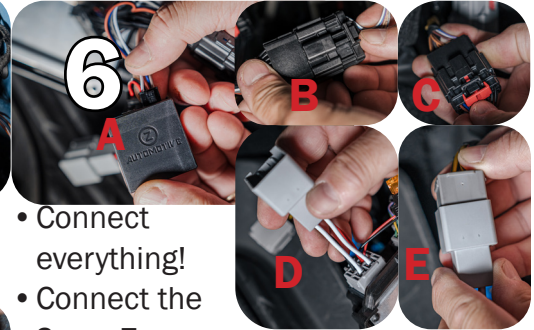
- Pull down on the DTCM and flip it over to reveal the connectors.



- Disconnect ALL connectors from the DTCM and set it aside. Connector (A) will be used during step 6.



- Locate the connector shown hanging nearby and disconnect and set it aside as well.



- Connect everything!
- Connect the SynapZe wiring harness to the electronics module (A).
- Connect the matching male (B) and female (C) connectors on the SynapZe wiring harness to the male and female connectors from step 5.
- Connect the matching female connector on the SynapZe wiring harness to the male connector from step 4 (D).
- Finally, connect the matching male connector to the female port on the DTCM from step 4 (E) and reseal the rest of the original DTCM plugs.

- 7 Finalize the installation by confirming operation using the instructions on the previous page. Then tuck the SynapZe and wiring away, reseal the connector panel, screw the bolt back in and reseal the plastic trim removed in step 1.

Z Automotive cannot be held responsible misuse or consequential damages. ForceRWD changes traction and handling and should only be used where appropriate (track/offroad/private property) and at your own risk.

If you are in doubt, email [support@zautotech.com](mailto:support@zautotech.com).

Please be aware that modifying your vehicle in any way can affect your vehicle's warranty, longevity, handling, etc.

Please use with caution, and AT YOUR OWN RISK.

USING THE LIGHT SHOW FEATURE ON PUBLIC ROADS: IMPERSONATING A POLICE OFFICER IS A FELONY. LIGHT SHOW IS INTENDED FOR CAR SHOW/TRACK/OFF ROAD USE ONLY.

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