ShockSims
Powered by Xineering

OBD/SS ARC
Z45 Adaptive Ride Control Bypass Module
(2019-2022.5 GM 1500 Trucks)

2022 Model year is a half year this bypass is for the OLDER 2022 trucks.

2022 VIN CHECK			2WD	4WD
Silverado	High Country	VIN[5] =	'W'	'Y'
Sierra	Denali	VIN[5] =	'8'	'9'

The OBD/SS ARC allows for removal and replacement of the factory new Z45 ARC shocks and struts. Simply unplug the four Z45 shocks/struts and install the OBD/SS ARC module following these instructions.

Our **OBD/SS ARC** is an Adaptive Ride Control RPO Z45 bypass module that lives on the CANBus. It has 3 simple connections.
- ☐ +12V Power Lug at the driver side interior fuse panel
- ☐ Ground Lug at the OBD port mounting screw
- ☐ CANH/CANL tapped at the PINK connector (X6) of the BCM

The module will mount under the dash, behind the OBD port located to the upper left of the driver's feet.

Operation:
The module will 'wake up' (RED LED ON) and 'sleep' (RED LED OFF) as the truck turns on and off. The truck will think there is a fully functional Z45 suspension system operating normally. The following can be removed from the vehicle if desired, all shocks and struts and all three ride height sensors.

No 'Service Suspension System' message will appear on the dash due to removal of the Z45 shocks/struts or ride height sensors.

Step 1:
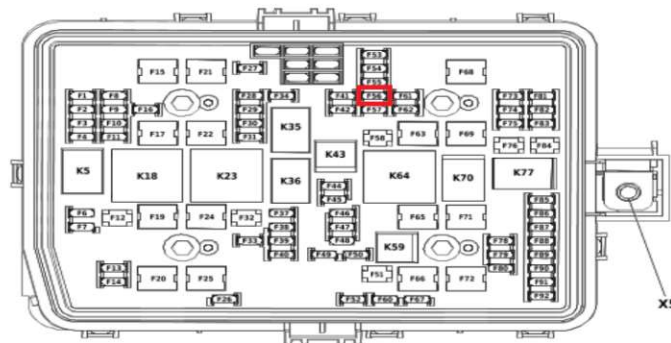Turn vehicle OFF and Disconnect the battery negative cable under hood.

Step 2:
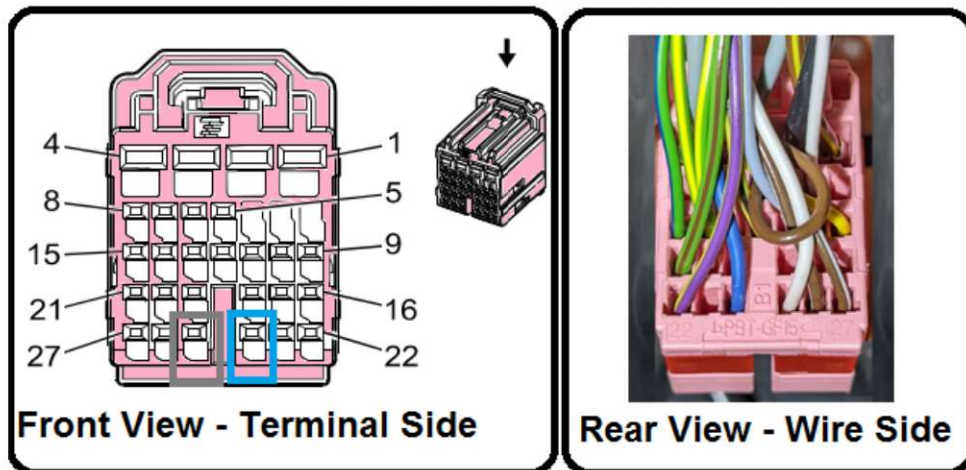Remove and <u>leave OUT of the vehicle</u> **Fuse F56 (SADS 15A)** from the under hood fuse box located on the passenger side of the engine in front of the battery. ***It will NOT need to be reinstalled as we want the OEM suspension module to remain unpowered.***

X50A Engine Wiring Harness Junction Block Top View

F56 SADS F56UA 15A
K19 Suspension Control Module (Z45)

2019-2022.5 Sierra Denali BCM
Body Control Module X6 PINK

Front View - Terminal Side

Rear View - Wire Side

24	**BLUE**	2500	High Speed GMLAN Serial Data (+) 1
25	**WHITE**	2501	High Speed GMLAN Serial Data (-) 1

Step 3: BCM X6 CANbus connection (see diagram above)

a) The BCM is located to the upper left of the brake pedal.

b) Unplug X6 the PINK connector, push on the locking tab and gently pull the connector out.

a)

b)

c) Attached the supplied Posi-Taps to the Blue (Pin 24) and White (Pin 25) wires in the PINK connector.

Then attach the Blue/White twisted pair of wires as shown.

Connect the OBD/SS Blue wire to the blue wire on the connector.
Connect the OBD/SS White wire to the white wire on the connector.

c)

Plug the PINK connector back into the BCM.
Plug the OBD/SS 2 pin male connector into the female 2 pin twisted pair connector.

Step 4: +12V Power

a) Pull the driver side fuse panel cover off.

   Be sure to catch any clips that may fall off the panel when removing it.

b) Push the OBD/SS ARC RED wire with spade connector onto one of the +12V pins as shown below Be sure to route the wire from underneath where the module will be mounted.

a)

b)

Replace the fuse panel cover

Step 5: Ground

a) Loosen the left 7mm bolt on the OBD Connector.

b) Slide the Fork terminal from the Black wire UNDER the OBD Port plastic flange so the fork is touching the METAL bracket.

c) Tighten the 7mm bolt to secure the spade and OBD Port.

b)

c)

Step 6: Reconnect the battery negative cable.