



# 13-17 CUMMINS DIGITAL SWITCH INSTALLATION

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THIS INSTRUCTION MANUAL COVERS INSTALLATION OF THE GAUGE POD MOUNT DSP/SOTF SWITCH FOR 2013-2017 CUMMINS TRUCKS ONLY.

**DISCLAIMER: GDP TUNING, LLC WILL NOT BE HELD RESPONSIBLE FOR ANY PERSONAL, PROPERTY, TRUCK, VEHICLE, ENGINE/POWERTRAIN, OR TRANSMISSION DAMAGE/INJURY THAT MAY RESULT WITH THE USE OF THIS MODULE. THIS IS AN AFTERMARKET PART; JUST LIKE ANY OTHER AFTERMARKET PERFORMANCE TRUCK PARTS, INSTALL/USE IT AT YOUR OWN RISK. BE SURE TO USE CAUTION WHEN WORKING AROUND YELLOW CONNECTORS OR WIRING AS THESE CAN BE RELATED TO THE SIR (AIRBAG) SYSTEM.**

## STEP 1

UNBOLT THE OBD2 PLUG.



## STEP 2

USIN A SMALL SCREWDRIVER, REMOVE THE BLUE PIN LOCK BY RELEASING THE 2 CLIP LOCKS



## STEP 3

REMOVE THE BLUE PIN LOCK



## STEP 4

INSERT THE OBD2 SIDE WIRE INTO PIN 8



## STEP 5

RE-INSTALL THE BLUE PINLOCK AND RE-ATTACH THE OBD2 PLUG



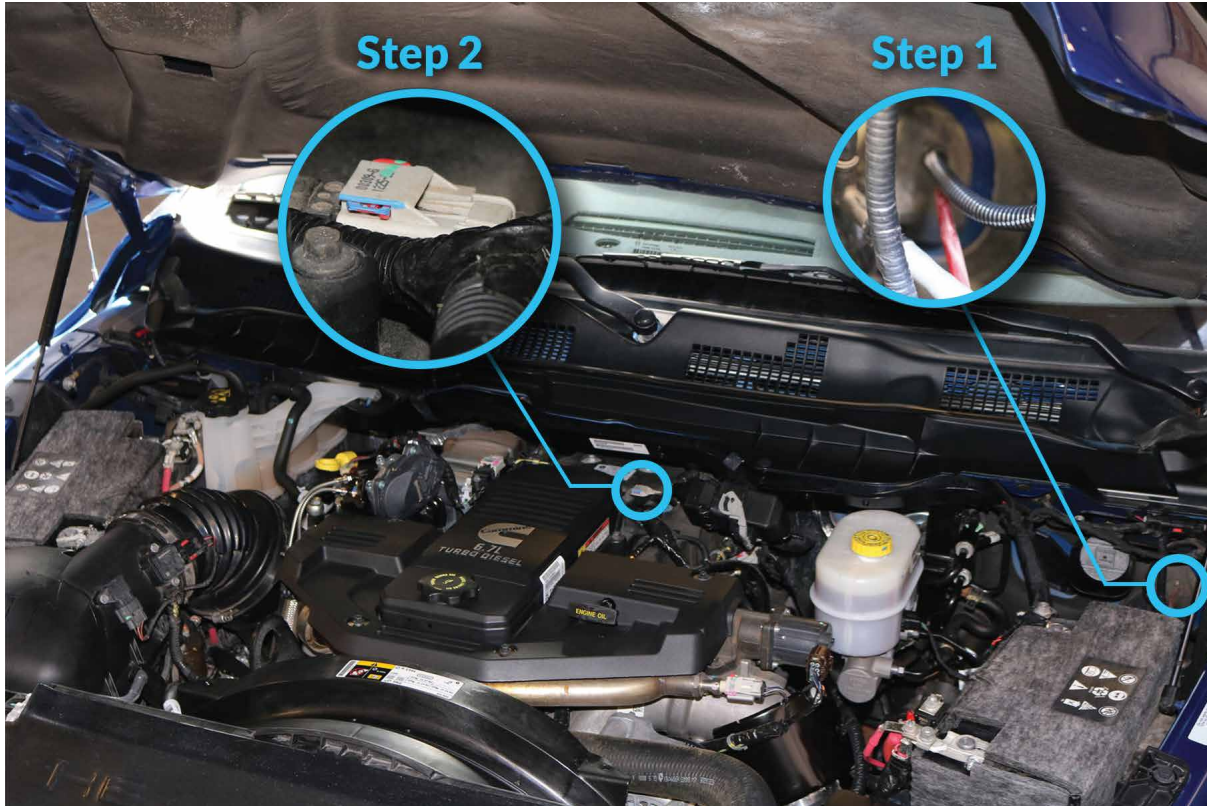


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## STEP 1

LOOM THE SWITCH WIRES AND ROUTE THROUGH THE FIREWALL BEFORE YOU INSERT THE PINS INTO THE CONNECTOR



## STEP 2

THE CONNECTOR PIN HOLES ARE NUMBERED AND IT IS IMPORTANT THAT YOU GET PINS INSERTED INTO THE PROPER LOCATION. **SOTF** WIRE GOES TO **NUMBER 3**. THERE ARE 3 SLOTS FOR THE WIRE TO BE INSERTED, THEY ARE NUMBERED 1,2,3



## NOTE

THE PLUG WILL CONNECT TO THE CRANKCASE PRESSURE SENSOR ON THE **DRIVERS** SIDE VALVE COVER. PLEASE NOTE THAT THERE IS A SENSOR ON THE PASSENGER SIDE THAT HAS THE SAME CONNECTORE, **DO NOT** USE THE PASSENGER SIDE CONNECTOR, AS YOUR SWITCH WILL NOT FUNCTION



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## PROGRAMMING/SETUP PROCEDURE

**NOTE:** THE SWITCH IS SET TO A DEFAULT MODE FROM THE FACTORY AND MUST BE CONFIGURED/SETUP FOR YOUR PARTICULAR TRUCK.

THE "UP" ARROW IS FOR CONFIGURING THE YEAR/ENGINE OF TRUCK.

THE "DOWN" ARROW IS FOR CONFIGURING THE SWITCH WAKE-UP/SLEEP SOURCE

## TRUCK YEAR/ENGINE CONFIGURATION

### STEP 1

PRESS AND HOLD THE UP ARROW OF THE SWITCH. WHILE HOLDING THE UP ARROW BUTTON PLUG IN THE OBD2 PLUG FROM THE SWITCH. THE SWITCH WILL POWER ON AND SHOW P (PROGRAM). ONCE IT SHOWS P, YOU CAN RELEASE THE UP ARROW.

### STEP 2

THE SWITCH DISPLAY WILL THEN SHOW EITHER "H", "1", OR "2" FOR A FEW SECONDS, GO BLANK FOR A SECOND, THEN RETURN TO REGULAR OPERATION. "H" IS 2001-2005 LB7/LLY DURAMAX, CUMMINS "1" IS 2006-2010 LBZ/LMM DURAMAX, "2" IS 2011-2016 LML DURAMAX AND FORD SUPERDUTY 11-17

### STEP 3

EACH TIME PROGRAMMING MODE IS MANUALLY ENTERED (FOLLOWING STEPS 1-3), THE SETTING WILL STEP UP ONE LEVEL (H, 1, 2), AND THEN LOOP BACK AROUND TO "H". ONCE YOU HAVE FOLLOWED STEPS 1-3 THE APPROPRIATE AMOUNT OF TIMES TO GET THE "P" SETTING TO H (LB7/LLY), YOU CAN TURN THE IGNITION OFF, WAIT A FEW SECONDS, AND THE YEAR SETTING WILL BE SAVED. YOU CAN RE-ENTER PROGRAMMING MODE (OR EXAMPLE, IF YOU ARE REMOVING AND INSTALLING THE SWITCH ON A DIFFERENT TRUCK) AT ANY TIME BY FOLLOWING STEPS 1-3.

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## SWITCH WAKE-UP/SLEEP SOURCE

THIS PROGRAMMING MODE IS TO SETUP THE SWITCH FOR AUTOMATIC ON/OFF BASED ON CAN BUS ACTIVITY. WHEN CAN TRAFFIC IS DETECTED BY THE SWITCH (IE, WHEN THE IGNITION IS TURNED ON), THE SWITCH WAKES UP AND TURNS ON. WHEN CAN TRAFFIC STOPS (IE, TRUCK IS SHUT OFF), THE SWITCH WILL WAIT AN EXTRA ~10 SECONDS, AND THEN PUT ITSELF TO SLEEP SO AS NOT TO DRAIN THE TRUCKS BATTERY.

THE TWO SETTINGS ON THE SWITCH ARE "C" FOR CAN BUS WAKE UP/SLEEP, AND "D" FOR DISCRETE WAKEUP/SLEEP SOURCE. THE "D" DISCRETE POWER SETTING IS ONLY FOR 2001-2005 DURAMAX THAT DOES NOT HAVE CAN PINS WIRED INTO THE OBD PORT AND THUS CANNOT BE SWITCHED ON/OFF AUTOMATICALLY. "D" DISCRETE SETTING FOR 2001-2005 DURAMAX SIMPLY TURNS THE SWITCH ON/OFF WITH THE IGNITION KEY.

### STEP 1

PRESS AND HOLD THE DOWN ARROW OF THE SWITCH. WHILE HOLDING THE DOWN ARROW BUTTON PLUG IN THE OBD2 PLUG FROM THE SWITCH.

### STEP 2

THE SWITCH WILL POWER ON AND SHOW THE CURRENT SWITCH WAKE/SLEEP SOURCE. "D" (DISCRETE, 01-05 DURAMAX ONLY) OR "C" (CAN, 2006+ DURAMAX, FORD, & CUMMINS). THE SWITCH DISPLAY WILL THEN GO BLANK FOR A SECOND, THEN RETURN TO REGULAR OPERATION.

### STEP 3

IF THE SWITCH SHOWS D, AND RETURNS TO NORMAL OPERATION, THE SWITCH IS CONFIGURED PROPERLY.

### STEP 4

TO SELECT THE CORRECT SETTING FOR SWITCH WAKE-UP. REPEAT STEPS 1-3

### STEP 5

DOUBLE CHECK ON/OFF OPERATION OF THE SWITCH, WITH THE KEY ON, THE SWITCH SHOULD BE ON, AND THE SWITCH SHOULD THEN TURN OFF AS SOON AS THE KEY IS TURNED OFF.

## SETUP COMPLETE

DOUBLE CHECK ALL CONNECTIONS, SECURE/TAPE ANY EXTRA WIRE, REINSTALL TRIM PANELS, AND ENJOY YOUR GDP TUNING GAUGE POD DIGITAL DSP/SOTF SWITCH!