



BRIGHT IS ONLY THE BEGINNING

# INSTALL GUIDE

## XB EVO HYBRID HEADLIGHTS: DODGE RAM (09-18)

LF2-520Y



WARNING: IT IS THE INSTALLERS RESPONSIBILITY TO CONFIRM COMPLIANCE WITH STATE AND LOCAL LAWS. BY READING THIS DOCUMENT, YOU AGREE IT IS ONLY TO BE USED AS AN EDUCATIONAL GUIDE. MORIMOTO LIGHTING NOR ITS DEALERS MAKE GUARANTEES ON ANY FINISHED RESULTS, NOR ARE THEY TO BE HELD RESPONSIBLE FOR ANY DAMAGE, MISUSE, OR PERSONAL INJURIES. IF YOU ARE UNABLE TO CLEARLY UNDERSTAND AND ADAPT THE INFORMATION BELOW, PROFESSIONAL INSTALLATION IS RECOMMENDED.

IMPORTANT: IF YOUR VEHICLE IS EQUIPPED WITH ANYTHING BUT MORIMOTO OR OEM TAILLIGHTS, SIDE MARKERS OR OTHER OEM EXTERIOR LIGHTING; YOU MAY EXPERIENCE A HYPER FLASH AND/OR PROBLEMS WITH THE SEQUENTIAL SIGNAL SETTING ON THESE HEADLIGHTS. THIS IS NOT A DEFECT IN THE HEADLIGHT AND CAUSED BY UN-MATCHED IMPEDANCE WITH YOUR ORIGINAL VEHICLE SETTINGS.



# **XB EVO HYBRID HEADLIGHTS: DODGE RAM (09-18)**

## **TABLE OF CONTENTS**

**PAGE**

**DISASSEMBLY ----- 3**

**HEADLIGHT SETUP ----- 7**

**INSTALLATION ----- 10**

**AIMING ----- 13**

## **WHAT'S INCLUDED**



**2X (PAIR) HEADLIGHT  
HOUSINGS**



**2X DE PROJECTOR  
HEADLIGHT  
HARNESSES**



**2X DE REFLECTOR  
HEADLIGHT  
HARNESSES**



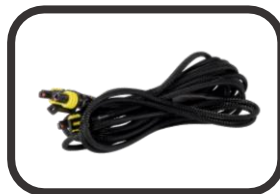
**2X MAGNET-  
MOUNT  
RESISTORS**



**1X MICRO FUSE TAP**



**1X MINI FUSE TAP**



**1X DRL HARNESS**

## **REQUIRED TOOLS**

- **TRIM REMOVAL TOOL**
- **RATCHET**
- **10MM SOCKET**
- **PHILLIPS HEAD  
SCREWDRIVER**



# DISASSEMBLY

THIS DOCUMENT IS MEANT TO SERVE AS A GENERAL GUIDE FOR VEHICLE DISASSEMBLY AND PRODUCT INSTALLATION. WHILE WE TRY TO COVER THE PROCESS AS THOROUGHLY AS POSSIBLE, YOUR EXPERIENCE MAY DIFFER SLIGHTLY DUE TO DIFFERENCES BETWEEN YEARS, TRIM PACKAGES, OPTIONS, OR AFTERMARKET PARTS INSTALLED.

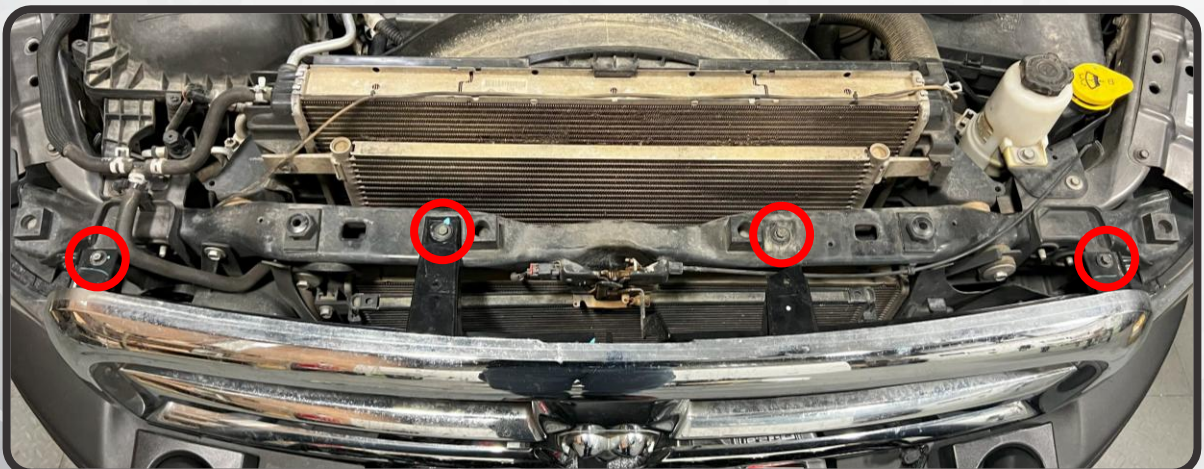
VEHICLE USED IN THIS GUIDE:

2014 RAM 2500HD

1. RAISE THE HOOD OF THE VEHICLE
2. USING A TRIM REMOVAL PRY TOOL, REMOVE THE FOUR PLASTIC PUSH CLIPS THAT SECURE THE PLASTIC RADIATOR SHROUD TO THE VEHICLE. ONCE THE CLIPS ARE REMOVED, REMOVE THE SHROUD AND SET IT ASIDE

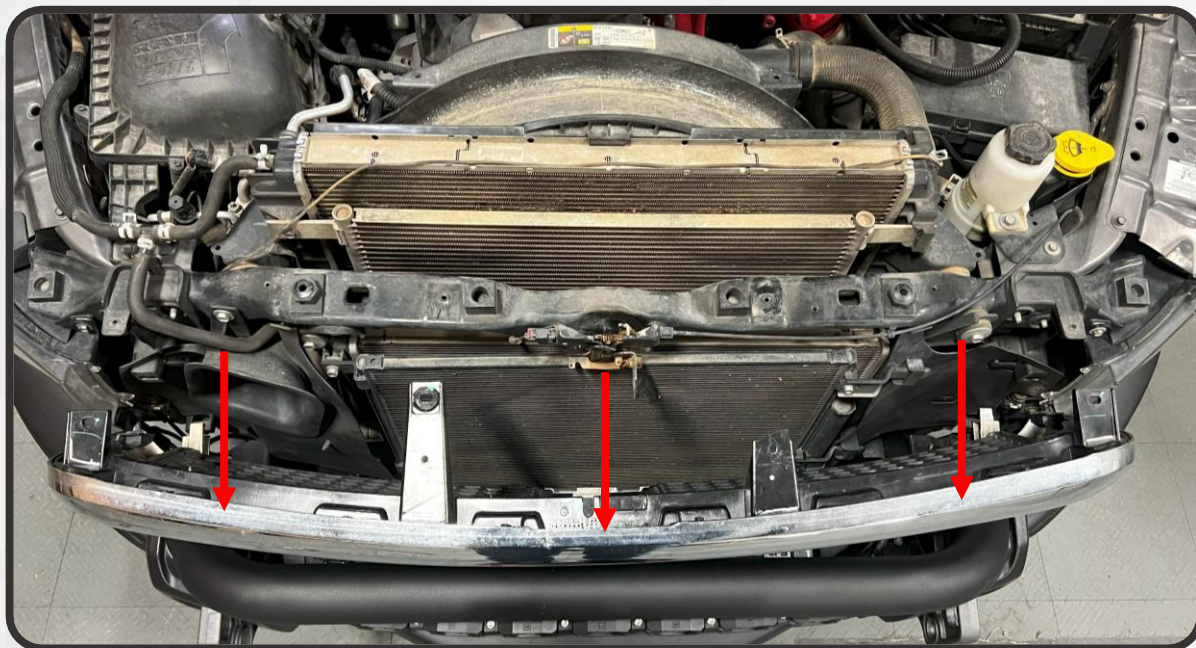


3. REMOVE THE FOUR 10MM BOLTS THAT SECURE THE TOP OF THE GRILLE TO THE UPPER RADIATOR SUPPORT

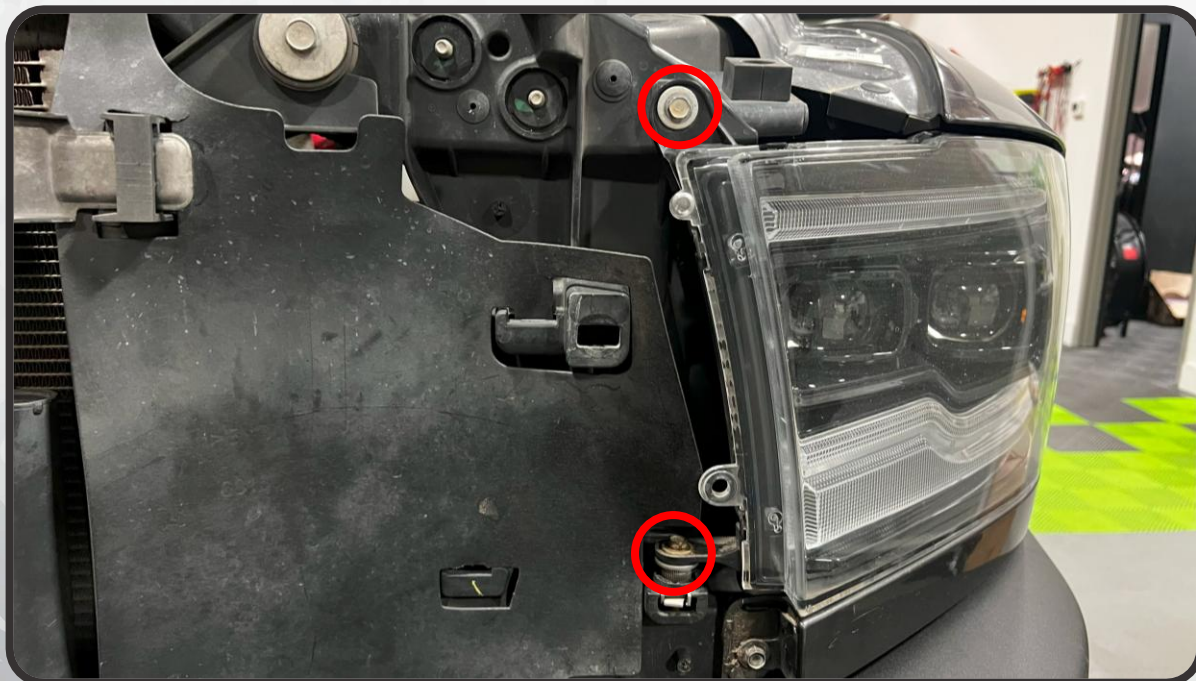


## DISASSEMBLY

4. PULL THE FRONT GRILLE ASSEMBLY FORWARD WITH MODERATE FORCE TO RELEASE THE FOUR CLIPS THAT SECURE IT TO THE TRUCK. ONCE IT IS RELEASED, REMOVE THE GRILLE FROM THE TRUCK AND SET IT ASIDE



5. REMOVE THE TWO 10MM BOLTS THAT SECURE THE INNER CORNERS OF THE DRIVER-SIDE HEADLIGHT HOUSING



# DISASSEMBLY

- MOVING TO THE DRIVER-SIDE WHEEL WELL, OPEN THE ACCESS PANEL ON THE FENDER LINER



- REACH THROUGH THE ACCESS PANEL AND SLIDE THE WHITE CLIP UPWARDS INTO THE "UNLOCKED" POSITION



## DISASSEMBLY

8. FIRMLY PULL THE HEADLIGHT FORWARD TO RELEASE IT FROM THE TRUCK. DISCONNECT THE CONNECTOR(S) ON THE BACK OF THE HOUSING, AND SET THE LIGHT ASIDE



9. REPEAT STEPS 5-8 ON THE OPPOSITE SIDE

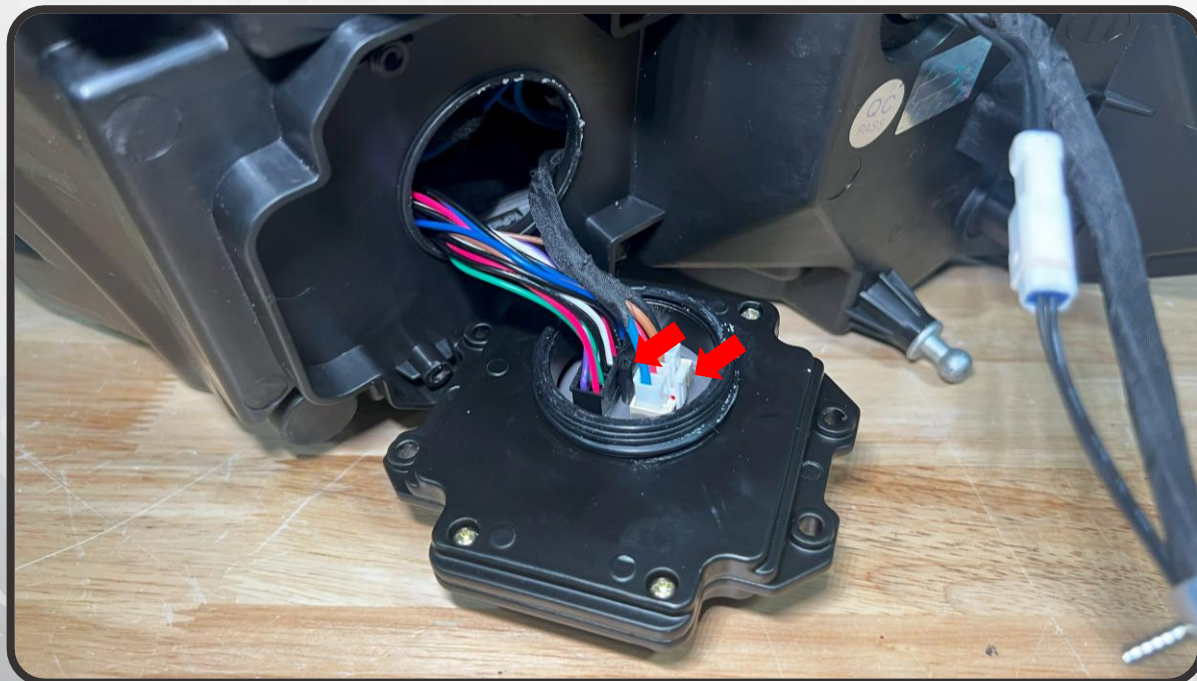


## HEADLIGHT SETUP

- IF YOU HAVE PURCHASED THE MORIMOTO XB SUPERCHARGED HEADLIGHT DRIVERS (SOLD SEPARATELY, FOR OFFROAD USE ONLY), REMOVE THE FOUR PHILLIPS HEAD SCREWS SECURING THE STANDARD HEADLIGHT DRIVER TO THE BACK OF THE HEADLIGHT

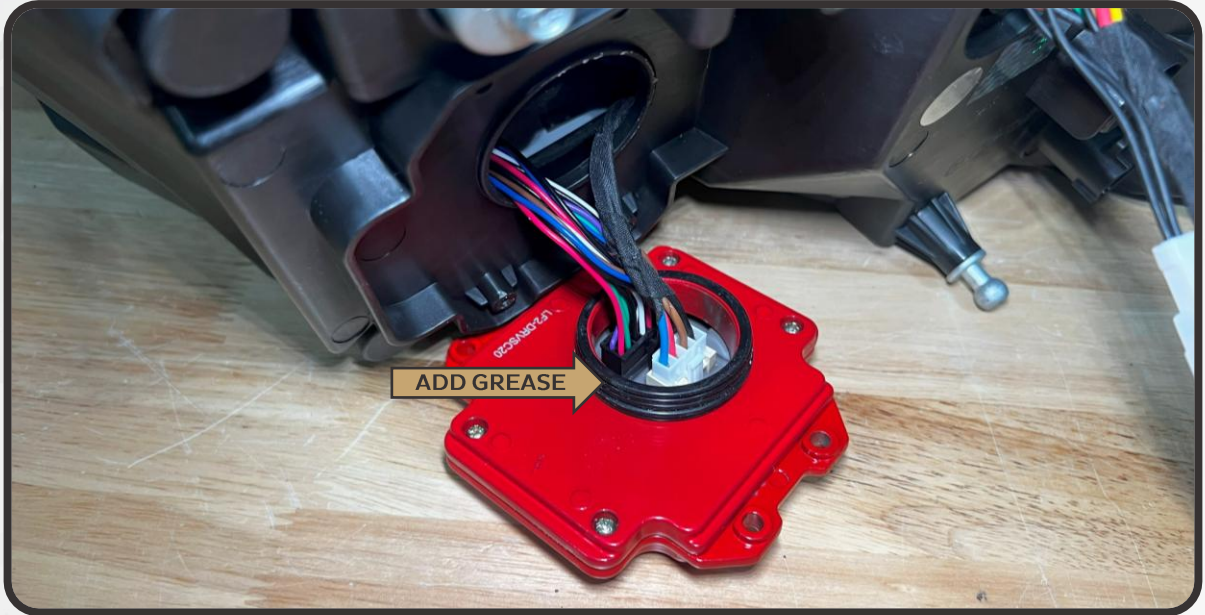


- PULL THE DRIVER OFF OF THE HOUSING. DEPRESS THE CLIP ON EACH OF THE DRIVER CONNECTORS AND PULL TO DISCONNECT THE DRIVER FROM THE INTERNAL HEADLIGHT WIRING

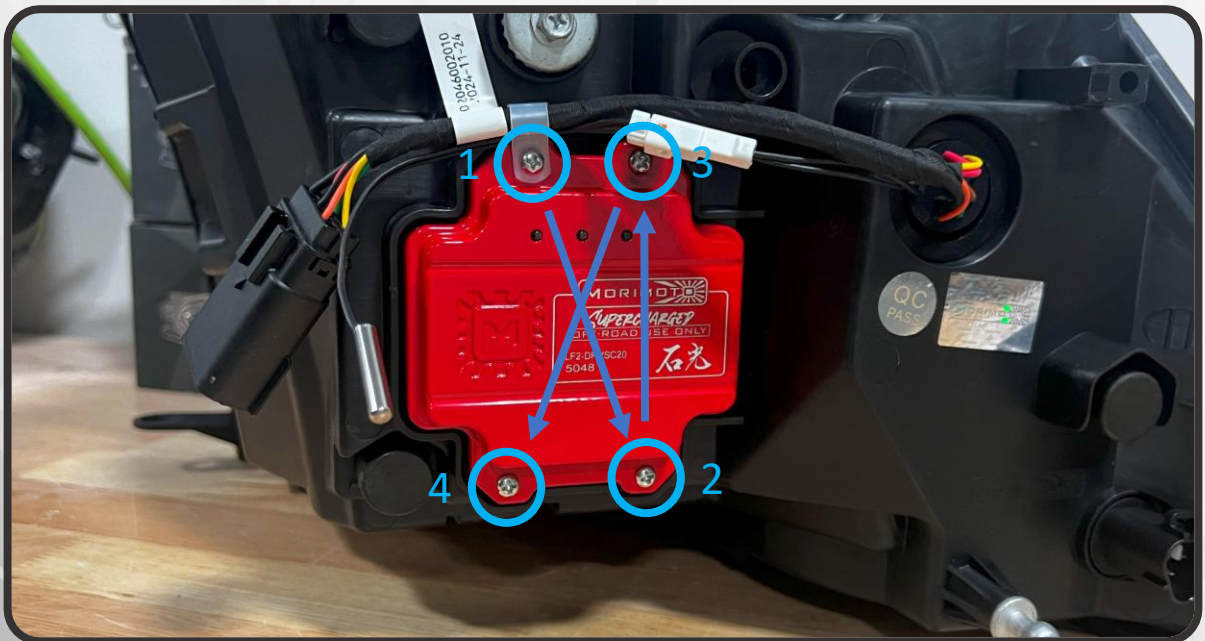


# HEADLIGHT SETUP

14. CONNECT THE NEW SUPERCHARGED DRIVER TO THE INTERNAL HEADLIGHT WIRING, MAKING SURE THE TAB ON EACH OF THE CONNECTOR'S CLIPS SECURELY INTO PLACE. APPLY A THIN LAYER OF THE INCLUDED GREASE TO THE OUTER EDGE OF THE SEAL ON THE NEW DRIVER



15. PRESS THE SUPERCHARGED DRIVER STRAIGHT INTO THE MOUNTING LOCATION, MAKING SURE THE RUBBER SEAL IS SEATED PROPERLY AND DOES NOT GET PINCHED OR BUNCHED UP. SECURE THE DRIVER TO THE HOUSING USING THE ORIGINAL FOUR PHILLIPS HEAD SCREWS, HAND TIGHTENING THEM DOWN IN A STAR PATTERN TO ENSURE THE DRIVER SEATS EVENLY AGAINST THE HOUSING



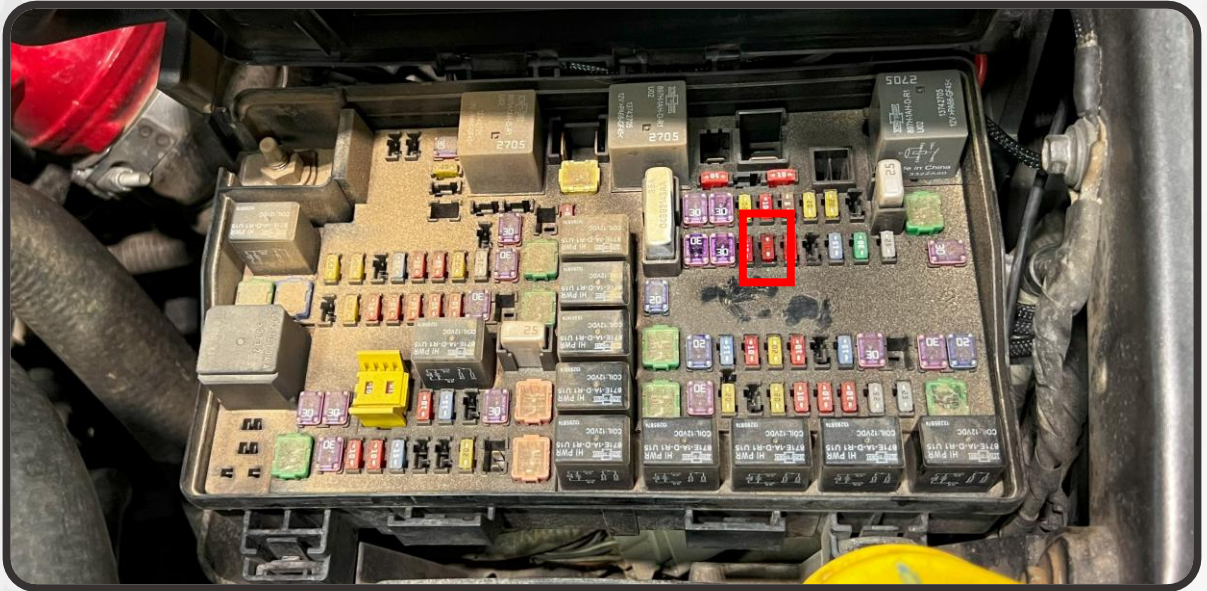
## HEADLIGHT SETUP

- FOR CANADIAN SPEC VEHICLES, INSTALL THE CANADIAN ADAPTER (PART NUMBER LF2-520HCA – SOLD SEPARATELY) ONTO THE INPUT PLUG ON THE BACK OF EACH HEADLIGHT ASSEMBLY



# INSTALLATION

17. OPEN THE LID TO THE FUSE BOX LOCATED IN THE ENGINE BAY
18. LOCATE AND REMOVE THE 10A FUSE IN THE F66 "SUNROOF/LRSM" SLOT ('09-'12 MODEL YEAR TRUCKS HAVE A DIFFERENT FUSE BOX. USE FUSE SLOT M6 OR M19)



19. INSTALL THE PROVIDED MICRO FUSE TAP INTO THE F66 FUSE SLOT (FOR '09-'12 MODEL YEAR TRUCKS, USE THE MINI FUSE TAP). ROUTE THE FUSE TAP WIRE OUT OF THE FUSE BOX AND CLOSE THE LID



# INSTALLATION

20. CONNECT THE DRL HARNESS TO THE FUSE TAP. ROUTE THE HARNESS FORWARD TO THE DRIVER-SIDE HEADLIGHT CAVITY, THEN ACROSS THE UPPER RADIATOR SUPPORT TO THE PASSENGER-SIDE HEADLIGHT CAVITY



REFLECTOR STYLE



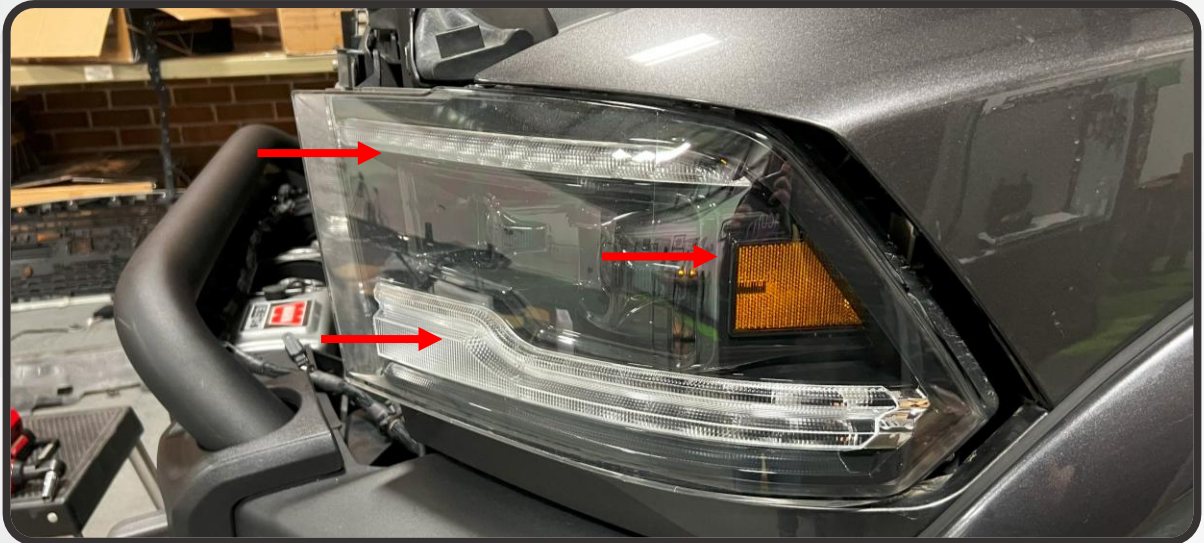
PROJECTOR STYLE

21. IDENTIFY YOUR FACTORY HEADLIGHTS ABOVE. CONNECT THE CORRESPONDING HEADLIGHT HARNESS TO THE HEADLIGHT CONNECTOR(S). FOR TRUCKS WITH FACTORY REFLECTOR HEADLIGHTS, ATTACH ONE MAGNET-MOUNT RESISTOR TO THE FRAME OF THE TRUCK IN THE HEADLIGHT CAVITY AND CONNECT THE RESISTOR TO THE HEADLIGHT HARNESS



# INSTALLATION

22. LIFT THE HEADLIGHT UP TO THE TRUCK AND CONNECT THE HEADLIGHT HARNESS AND DRL HARNESS TO THE CORRESPONDING CONNECTORS ON THE BACK OF THE HOUSING. THEN, FIT THE HOUSING INTO THE HEADLIGHT CAVITY AND PUSH IT STRAIGHT ONTO THE VEHICLE



23. LOOSELY REINSTALL THE FACTORY HARDWARE AND LOCK THE TAB ON THE BACK OF THE HOUSING TO SECURE THE LIGHT TO THE TRUCK

24. REPEAT STEPS 21-23 ON THE OPPOSITE SIDE OF THE TRUCK

25. GET IN THE VEHICLE AND CONFIRM THAT ALL FUNCTIONS ARE WORKING PROPERLY

- THERE ARE THREE LEDS ON THE BACK OF THE LED DRIVER THAT INDICATE WHEN POWER IS BEING RECEIVED BY THE HEADLIGHT. IF ANY OF THESE INDICATOR LIGHTS ARE NOT ILLUMINATED WHEN THE CORRESPONDING FUNCTION SHOULD BE POWERED, RECHECK YOUR CONNECTIONS AND RELEVANT FUSES



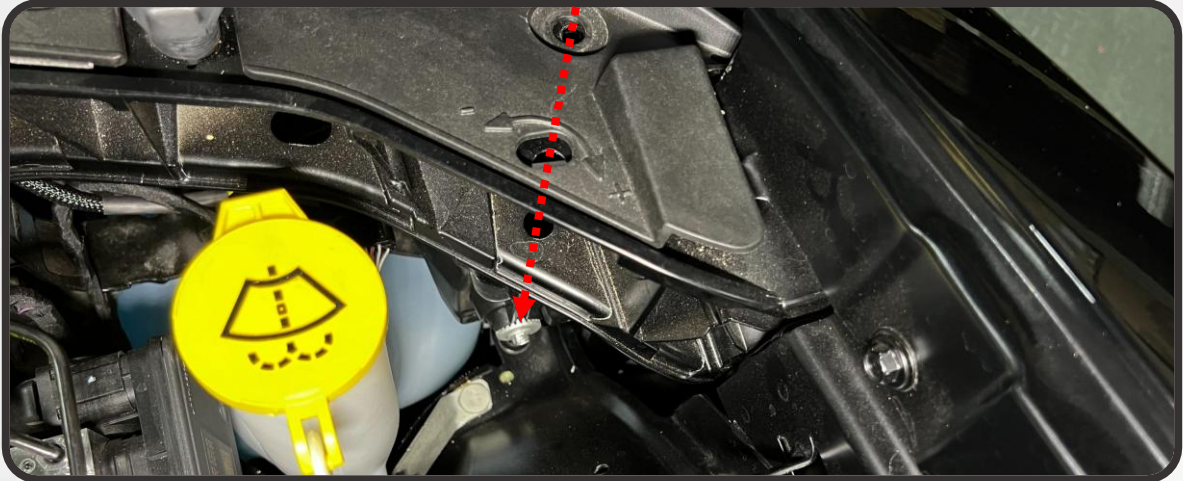
- GREEN – LOW BEAM
- BLUE – HIGH BEAM
- RED – FUSE TAP

26. GO BACK AND TIGHTEN DOWN ALL HARDWARE AND REASSEMBLE THE FRONT OF THE VEHICLE IN THE REVERSE ORDER OF DISASSEMBLY



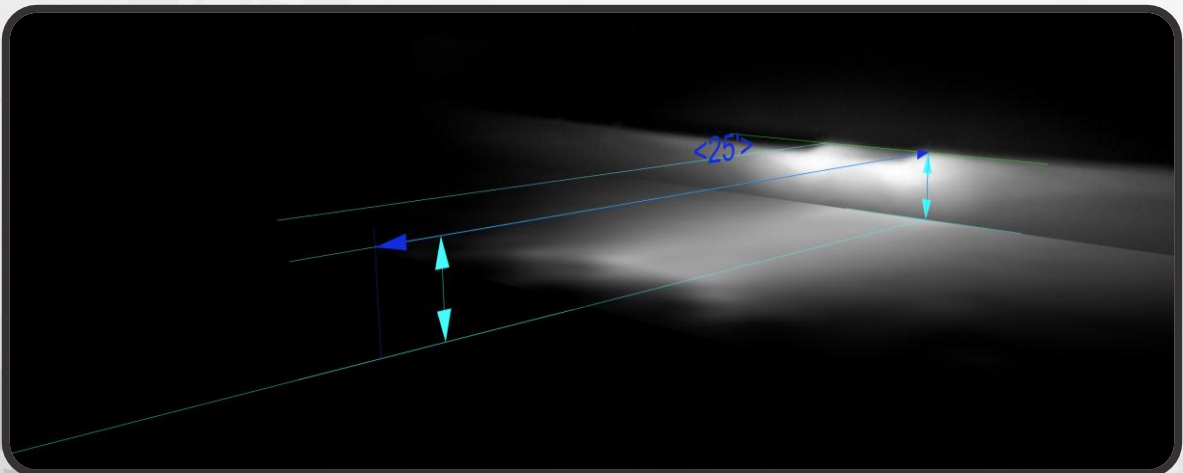
## AIMING

27. THE HEADLIGHTS COME OUT OF THE BOX AIMED FOR STOCK RIDEHEIGHT, HOWEVER IT IS RECOMMENDED TO FINE TUNE THE AIM OF YOUR LOW BEAM AFTER INSTALLATION REGARDLESS. USING A LONG PHILLIPS HEAD SCREWDRIVER DOWN THE BACK OF THE HEADLIGHT TO THE ADJUSTER GEAR, FOLLOW THE INSTRUCTIONS BELOW TO PROPERLY ALIGN YOUR HEADLIGHTS' LOW BEAM CUTOFF (THE UPPER HORIZONTAL EDGE OF THE LOW BEAM)



28. WITH THE VEHICLE PARKED ON LEVEL GROUND, 25' FROM A WALL, MEASURE THE DISTANCE FROM THE GROUND TO THE OPTICAL CENTER OF THE OUTERMOST PROJECTOR IN THE HEADLIGHT

- IF THE DISTANCE FROM THE GROUND TO THE OPTICAL CENTER IS LESS THAN 34.5", ADJUST THE TOP OF THE HEADLIGHT CUTOFF TO THE SAME HEIGHT AS THE HEADLIGHT MEASUREMENT YOU TOOK
- IF THE HEIGHT IS BETWEEN 35"-39", ADJUST THE CUTOFF TO 2" BELOW YOUR HEADLIGHT MEASUREMENT
- IF THE HEIGHT IS GREATER THAN 39.5", ADJUST THE CUTOFF TO 3" BELOW YOUR HEADLIGHT MEASUREMENT



NOTE: AIMING SHOULD NOT REQUIRE MORE THAN THREE FULL TURNS OF THE ADJUSTER IN EITHER DIRECTION. OVER-ADJUSTING THE LIGHT MAY RESULT IN DAMAGE TO THE ADJUSTER



# **XB EVO HYBRID HEADLIGHTS: DODGE RAM (09-18)**



**- ENJOY YOUR NEW MORIMOTO XB EVO HYBRID  
HEADLIGHTS! -**

