

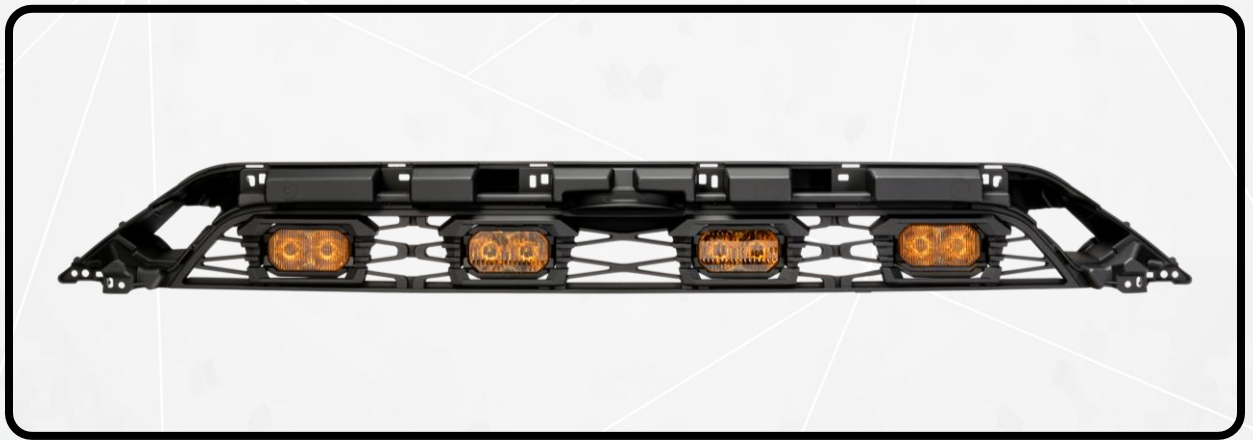


BRIGHT IS ONLY THE BEGINNING

INSTALL GUIDE

XBG LED GRILLE: TOYOTA 4RUNNER (14-24)

XBG36



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.



XBG LED GRILLE: TOYOTA 4RUNNER (14-24)

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WHAT'S INCLUDED

GRILLE KIT



1X GRILLE
ASSEMBLY



1X 2021+ CENTER
SUPPORT BRACKET



4X 2021+ GRILLE
SPACERS



1X FRONT BUMPER
TRIM PANEL



4X 2021+ GRILLE
SCREWS



1X LOW-PROFILE
MINI FUSE TAP



1X FUSE TAP
EXTENSION



1X GRILLE HARNESS



1X SIDE MARKER
HARNESS



1X MINI FUSE TAP

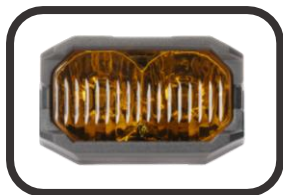


1X FUSE TAP
SPLITTER



XBG LED GRILLE: TOYOTA 4RUNNER (14-24)

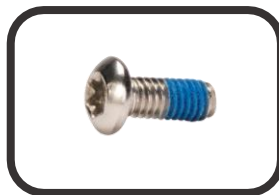
2BANGERS



**2X AMBER NCS
COMBO BACKLIT
2BANGER PODS**



**2X AMBER NCS WIDE
BACKLIT 2BANGER
PODS**



**16X T20 PAN HEAD
MOUNTING SCREWS**

RELAY HARNESS



**1X DUAL OUTPUT
RELAY HARNESS**



**1X 1.25M DEUTSCH
EXTENSION
HARNESS**



**1X UPFITTER SWITCH
INPUT**

REQUIRED TOOLS

- RATCHET
- 10MM SOCKET
- PRY TOOL
- ZIP TIES
- T20 TORX DRIVER
- #2 PHILLIP'S HEAD SCREWDRIVER
- DRILL AND 7/32" BIT
- YOUR PREFERRED DETAIL SPRAY/PAINT CLEANER

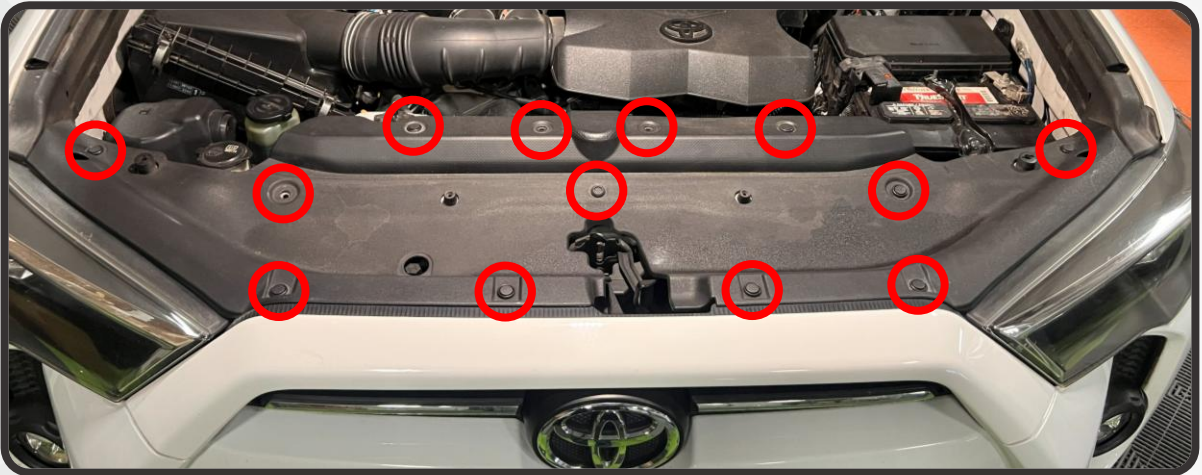


DISASSEMBLY

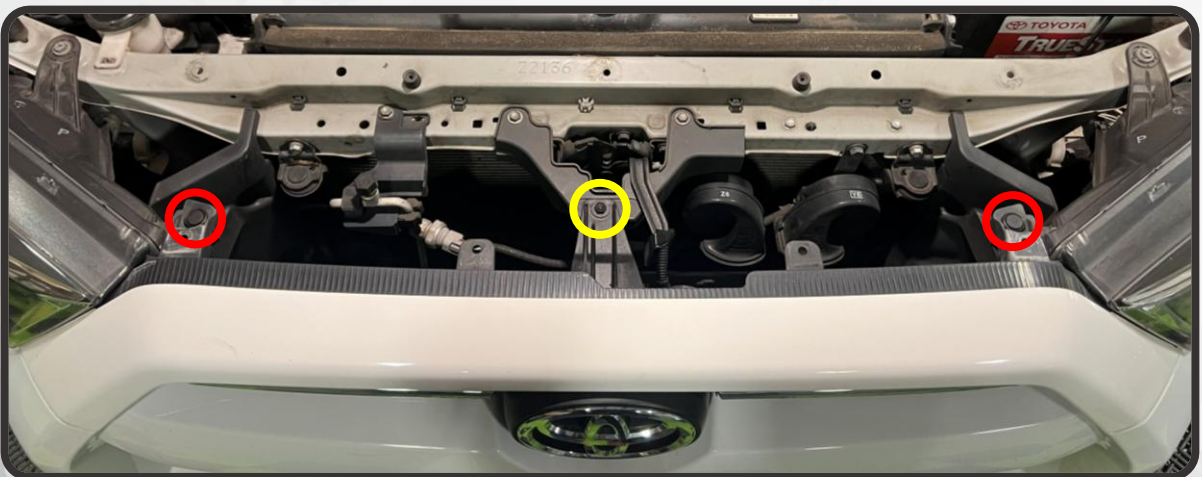
THIS DOCUMENT IS MEANT TO SERVE AS A GENERAL GUIDE FOR VEHICLE DISASSEMBLY AND PRODUCT INSTALLATION. WHILE WE TRY TO COVER THE PROCESS AS THOROUGHLY AS POSSIBLE, YOUR EXPERIENCE MAY DIFFER SLIGHTLY DUE TO DIFFERENCES BETWEEN YEARS, TRIM PACKAGES, OPTIONS, OR AFTERMARKET PARTS INSTALLED

VEHICLE USED IN THIS GUIDE:
2021 TOYOTA 4RUNNER SR5

1. RAISE THE HOOD OF THE VEHICLE. REMOVE THE THIRTEEN PUSH CLIPS SECURING THE RADIATOR COVER BY DEPRESSING THE INNER PORTION OF THE CLIP, AND THEN PRYING UP ON THE OUTER PORTION. WITH THE CLIPS REMOVED, REMOVE THE RADIATOR COVER AND SET IT ASIDE

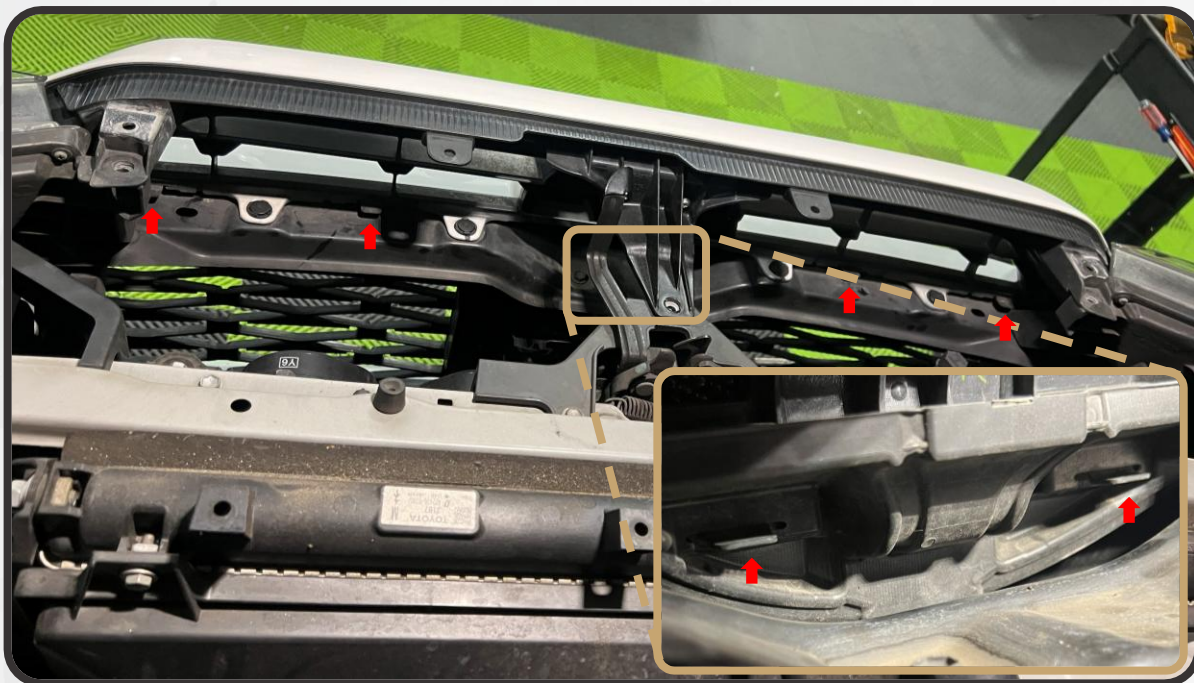


2. REMOVE THE TWO PUSH CLIPS (RED) BY PRYING UP THE MIDDLE AND THEN PRYING UP THE OUTER PORTION, AND ONE CENTER 10MM SCREW (YELLOW), FROM THE TOP OF THE GRILLE



DISASSEMBLY

3. LIFT UP ON EACH OF THE SIX PLASTIC TABS ON THE BOTTOM EDGE OF THE UPPER GRILLE WHILE PULLING FORWARD ON THE GRILLE TO HELP RELEASE THEM



4. FIRMLY PULL THE UPPER GRILLE FORWARD AND REMOVE IT FROM THE VEHICLE

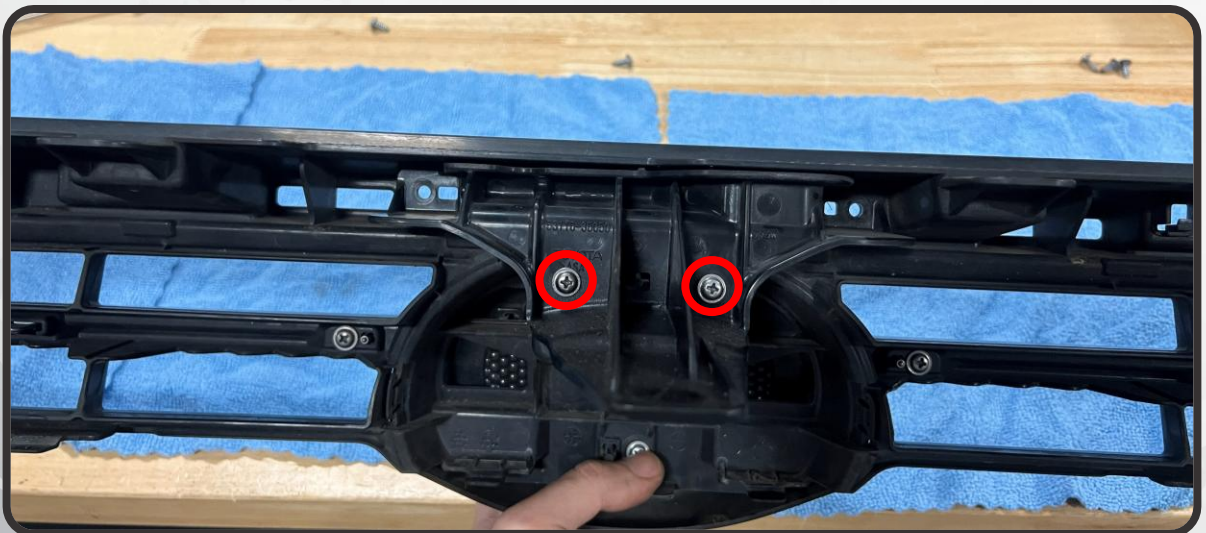


DISASSEMBLY

5. PLACE THE GRILLE FACE-DOWN ON A WORK SURFACE. WE RECOMMEND LAYING DOWN A TOWEL OR SOFT WORK MAT TO PREVENT DAMAGE TO THE PAINT
6. REMOVE THE EIGHT PHILLIPS HEAD SCREWS (FOUR PER SIDE, MARKED RED) THAT SECURE THE FRONT GRILLE SURROUND TO THE GRILLE ASSEMBLY
7. WITH THE HARDWARE REMOVED, RELEASE THE TWO CLIPS ON EACH SIDE (MARKED YELLOW) AND REMOVE THE FRONT GRILLE SURROUND FROM THE GRILLE ASSEMBLY

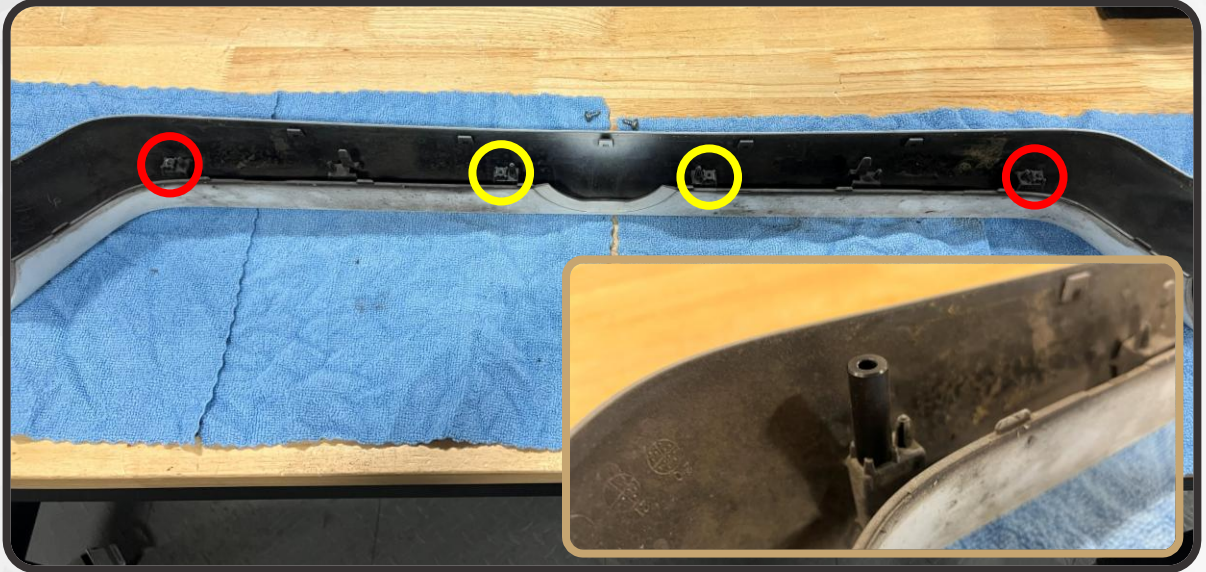


8. FOR 2014-2020 MODEL YEAR VEHICLES, ALSO REMOVE THE TWO PHILLIPS HEAD SCREWS THAT SECURE THE CENTER MOUNTING BRACKET TO THE GRILLE ASSEMBLY AND REMOVE THE CENTER BRACKET TO BE SWAPPED OVER TO THE NEW GRILLE. 2021-2024 MODEL YEAR TRUCKS WILL USE THE INCLUDED REPLACEMENT CENTER BRACKET



ASSEMBLY

9. FOR 2021-2024 MODEL YEAR VEHICLES (EARLIER MODEL YEAR TRUCKS SKIP THIS STEP), FIT THE PROVIDED SPACERS ONTO THE INDICATED STANDOFFS ON THE BACK OF THE FRONT GRILLE SURROUND AS SHOWN. THE TALLER SPACERS GO ONTO THE OUTER POSITIONS (INDICATED RED) AND THE SHORTER GO ONTO THE INNER POSITIONS (INDICATED YELLOW).



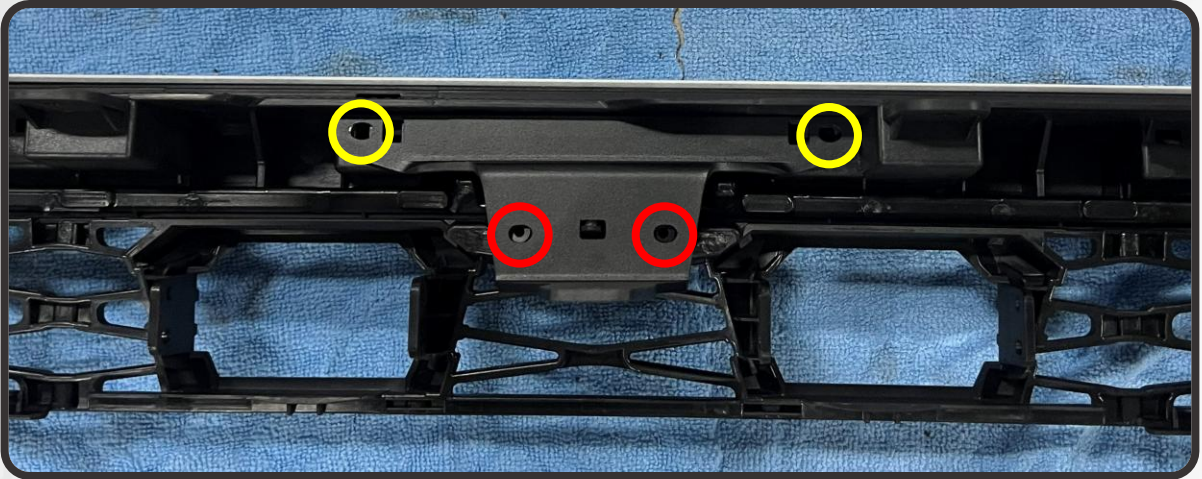
10. FIT THE NEW MORIMOTO GRILLE ASSEMBLY INTO THE BACK OF THE FRONT GRILLE SURROUND. THE FOUR CLIPS YOU RELEASED DURING DISASSEMBLY WILL CLIP INTO PLACE ON THE NEW GRILLE. SECURE THE GRILLE BY REINSTALLING THE SIX OUTERMOST PHILLIPS SCREWS (2021-2024 MODEL YEAR TRUCKS USE TWO OF THE PROVIDED LONGER SCREWS FOR THE INNER TWO LOCATIONS, INDICATED YELLOW)



ASSEMBLY

11. INSTALL THE CENTER GRILLE SUPPORT BRACKET

- A. FOR 2014-2020 MODEL YEAR VEHICLES: FIT YOUR FACTORY CENTER GRILLE SUPPORT BRACKET ONTO THE NEW GRILLE ASSEMBLY AND SECURE IT USING THE FOUR FACTORY SCREWS YOU REMOVED EARLIER
- B. FOR 2021-2024 MODEL YEAR VEHICLES: FIT THE PROVIDED REPLACEMENT CENTER GRILLE SUPPORT ONTO THE BACK OF THE NEW GRILLE ASSEMBLY. SECURE IT BY REINSTALLING TWO OF THE ORIGINAL FACTORY SCREWS THROUGH THE TWO LOWER MOUNTING HOLES (INDICATED RED), AND TWO OF THE PROVIDED EXTENDED SCREWS THROUGH THE TWO UPPER HOLES/INSTALLED SPACERS (INDICATED YELLOW)



12. FIT EACH OF YOUR 2BANGERS INTO THE FOUR OPENINGS ON THE GRILLE. SECURE THEM IN PLACE USING TWO OF THE PROVIDED T20 TORX SCREWS ON EITHER SIDE OF THE POD. HAND TIGHTEN UNTIL SECURE, BUT STILL LOOSE ENOUGH FOR THE AIM TO BE ADJUSTED LATER



INSTALLATION

13. IF YOUR 4RUNNER CAME WITH THE TOYOTA OVAL FRONT BADGE, YOU WILL NEED TO INSTALL THE BLACK PANEL PROVIDED. CLEAN THE CENTER PORTION OF THE FRONT BUMPER OF ANY DIRT/GRIME USING YOUR FAVORITE DETAILING SPRAY (OR SIMILAR), THEN WIPE THE SURFACE WITH ISOPROPYL ALCOHOL TO REMOVE ANY WAXES OR OILS THAT MAY PREVENT THE 3M TAPE FROM STICKING

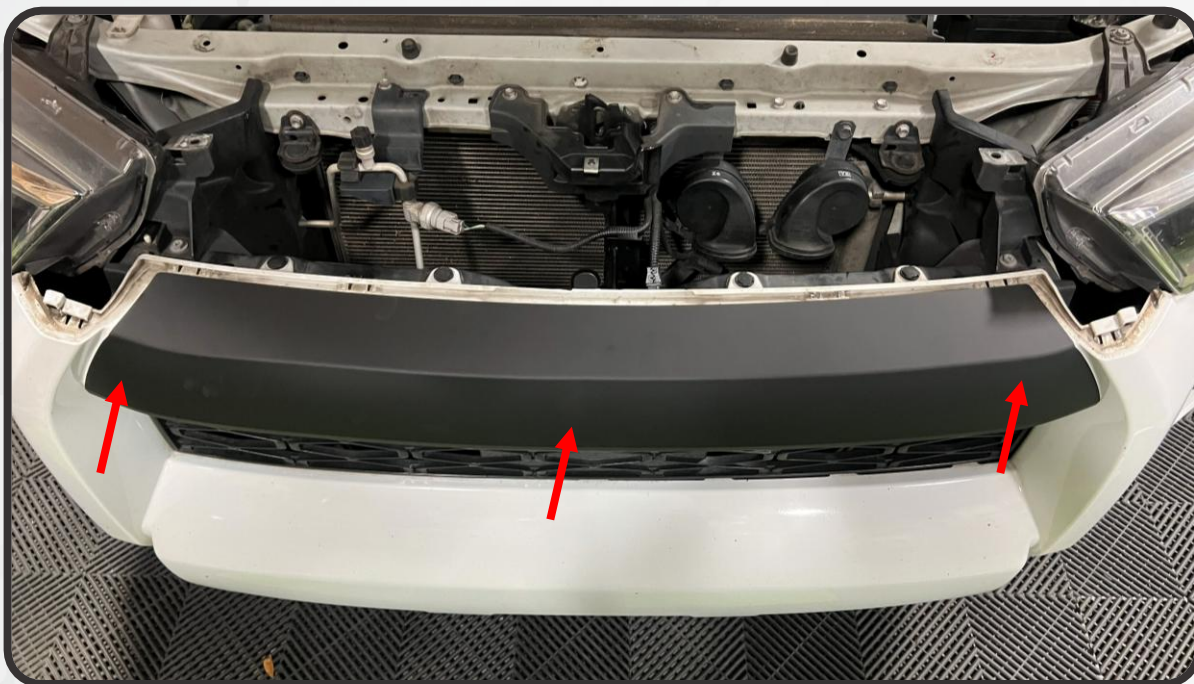


14. REMOVE THE BACKING FROM THE 3M TAPE ON THE BACK-SIDE OF THE TRIM PANEL

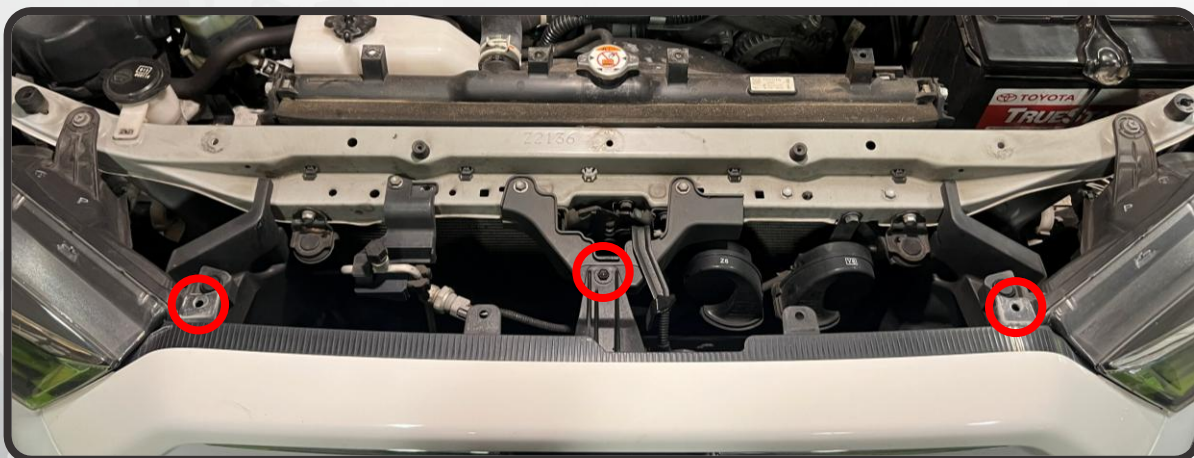


INSTALLATION

15. CENTER THE PANEL OVER THE BUMPER AND PUSH THE PANEL INTO PLACE UNTIL THE 3M TAPE CONTACTS THE BUMPER COVER SURFACE. FIRMLY PUSH AGAINST THE FRONT OF THE PANEL FOR A FEW SECONDS TO ENSURE THE 3M TAPE FULLY ADHERES



16. INSTALL THE NEW GRILLE ASSEMBLY ONTO THE VEHICLE, MAKING SURE THE SIX CLIPS ALONG THE BOTTOM CLIP INTO PLACE AS YOU DO
17. SECURE THE GRILLE USING THE FACTORY TWO PUSH-CLIPS AND ONE 10MM BOLT



WIRING

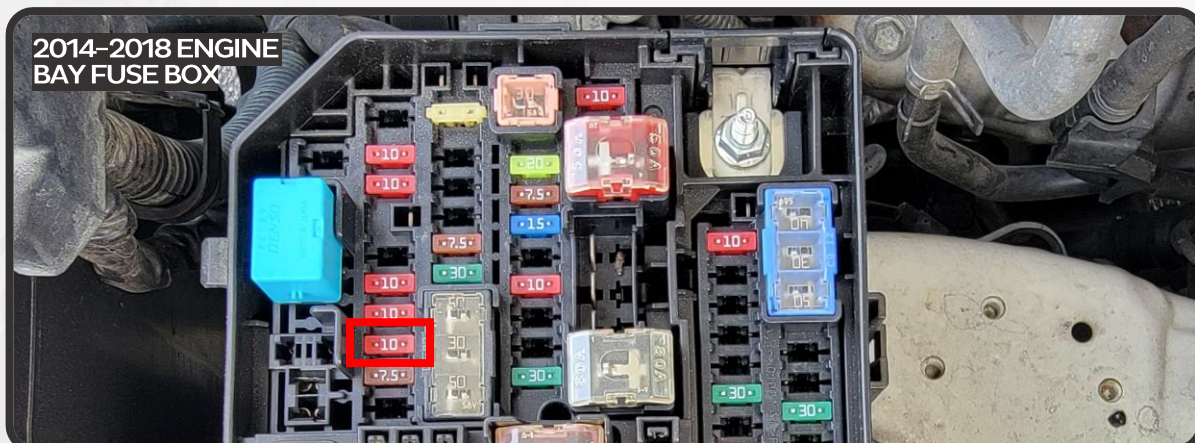
-WIRE DIAGRAMS INCLUDED ON PAGES 18-19-

18. THE 2BANGER BACKLIGHTS ARE POWERED VIA ONE OF THE INCLUDED FUSE TAP HARNESSES. THE FUSE TAP NEEDS TO BE INSTALLED INTO A FUSE SLOT ON YOUR VEHICLE WITH SWITCHED IGNITION POWER (CONSTANT 12V WHEN THE VEHICLE IS ON, AND OFF WHEN THE VEHICLE IS OFF).

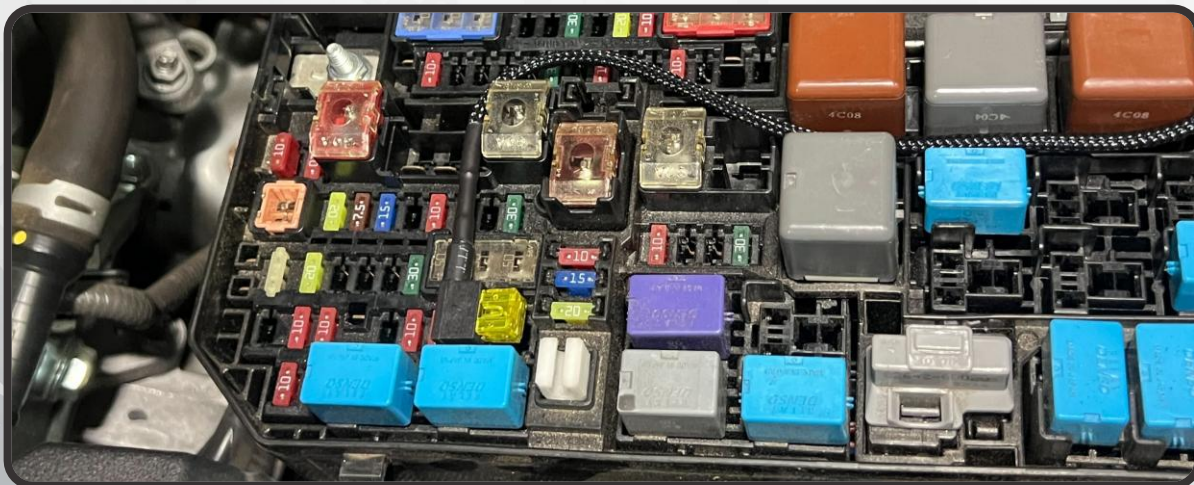
- FOR 2014-2018 MODEL YEAR VEHICLES, WE RECOMMEND USING THE 10A INJECTOR FUSE (LABELED "INJ") IN THE UNDER-HOOD FUSE BOX. FOLLOW THE STEPS BELOW
- FOR 2019-2024 MODEL YEAR VEHICLES, WE RECOMMEND USING THE 15A CIGARETTE LIGHTER/POWER OUTLET FUSE (LABELED P/OUTLET) IN THE INTERIOR FUSE PANEL UNDER THE DASH. SKIP TO STEP 22 ON THE NEXT PAGE (13)
- IF YOU ARE INSTALLING/HAVE INSTALLED THE MORIMOTO XB HEADLIGHTS, THE SAME FUSE TAP CAN BE USED FOR BOTH-

2014-2018 RECOMMENDED INSTALL

19. OPEN YOUR ENGINE BAY FUSE BOX AND LOCATE THE 10A INJECTOR FUSE (LABELED "INJ") IN THE #68 SLOT AND REMOVE IT



20. INSERT THE FUSE YOU REMOVED FROM THE FUSE BOX INTO THE EMPTY FUSE SLOT OF THE LOW-PROFILE MINI FUSE TAP HARNESS. THEN, INSERT THE FUSE TAP INTO THE INJECTOR FUSE YOU REMOVED THE



WIRING

21. ROUTE THE FUSE TAP OUT OF THE FUSE BOX. USING A DRILL WITH A 5.5MM/7/32" DRILL BIT OR A SMALL CUTTING TOOL, MAKE A NOTCH IN THE SIDE WALL OF THE FUSE BOX LID FOR THE HARNESS TO PASS THROUGH, AND INSERT THE GROMMET ON THE FUSE TAP INTO THE NOTCH. CLOSE THE FUSE BOX LID DOWN OVER THE HARNESS



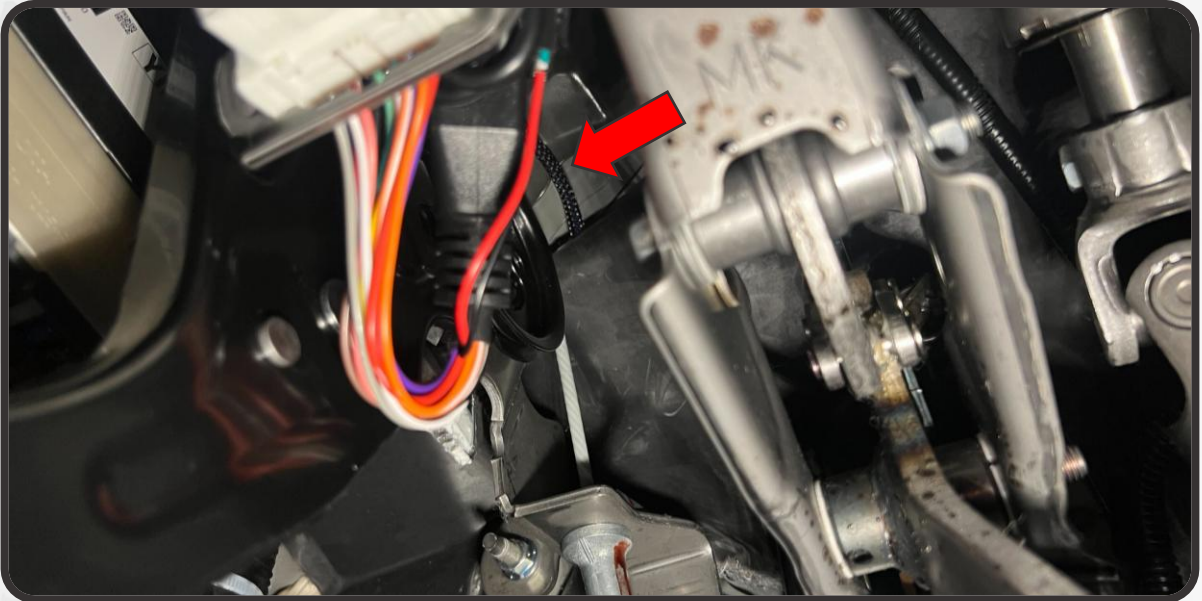
2019-2024 RECOMMENDED INSTALL

22. LOCATE THE FIREWALL GROMMET SHOWN BELOW AND REMOVE IT. CUT A SLIT IN THE MIDDLE OF THE GROMMET. PASS THE PROVIDED FUSE TAP EXTENSION THROUGH THE GROMMET AND REINSTALL IN INTO THE FIREWALL



WIRING

23. MOVING TO THE DRIVER FOOTWELL, LOOK UP THE FIREWALL AND LOCATE THE BIT OF HARNESS YOU PUT THROUGH THE HOLE. IT MAY HELP TO HAVE A SECOND PERSON IN THE FOOTWELL WHILE PASSING THE HARNESS THROUGH THE FIREWALL. PULL THE HARNESS THROUGH AND DOWN TO THE INTERIOR FUSE BOX



24. REMOVE THE LID FROM THE INTERIOR FUSE BOX AND LOCATE AND REMOVE THE 15A CIGARETTE LIGHTER/POWER OUTLET FUSE (LABELED P/OUTLET) IN THE #47 SLOT. INSTALL THE PROVIDED MINI (NON-LOW-PRO) FUSE TAP INTO THIS FUSE SLOT AND CONNECT THE FUSE TAP TO THE EXTENSION HARNESS. TUCK AND SECURE ANY LOOSE/EXCESS WIRING IN THE FOOTWELL, AND ENSURE THE WIRES WILL NOT BE PINCHED BY ANY MOVING COMPONENTS SUCH AS THE PEDALS

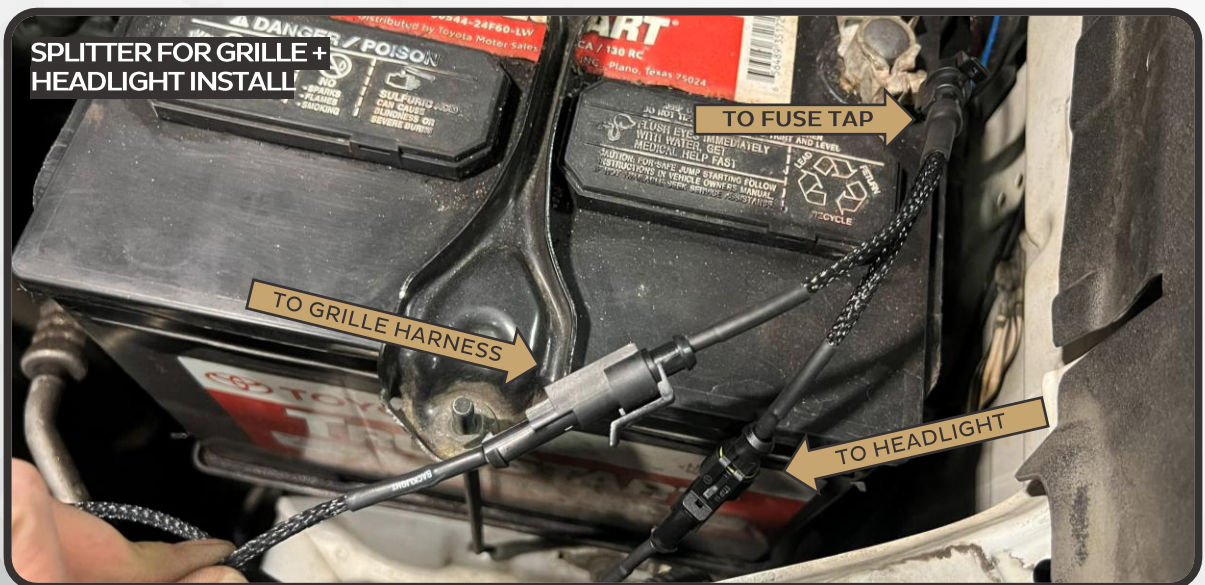


WIRING

25. CONNECT THE FUSE TAP/FUSE TAP EXTENSION TO THE PLUG LABELED “BACKLIGHT” ON THE GRILLE HARNESS



-IF YOU ARE INSTALLING/HAVE INSTALLED THE MORIMOTO XB HEADLIGHTS AND ARE USING THE SAME FUSE TAP FOR BOTH (RECOMMENDED), CONNECT THE PROVIDED DRL SPLITTER TO THE FUSE TAP/FUSE TAP EXTENSION. CONNECT ONE OF THE SPLITTERS OUTPUTS TO THE PLUG LABELED “BACKLIGHT” ON THE GRILLE HARNESS, AND THE OTHER OUTPUT TO THE HEADLIGHT DRL HARNESS-



WIRING

26. PULL BACK THE RUBBER TRIM PANEL THAT RUNS ALONG THE INNER EDGE OF THE FENDER TO ACCESS THE HEADLIGHT'S SIDE-MARKER CONNECTOR. DISCONNECT THE SIDE-MARKER PLUG AND CONNECT THE PROVIDED SIDE-MARKER HARNESS INLINE BETWEEN THE VEHICLE WIRING AND THE HEADLIGHT



27. CONNECT THE SINGLE-PIN OUTPUT ON THE SIDE-MARKER HARNESS TO THE PLUG LABELED "DIMMER" ON THE GRILLE HARNESS



WIRING

28. CONNECT EACH OF THE FOUR 4-PIN DT CONNECTORS ON THE GRILLE HARNESS TO EACH OF THE 2BANGER POD LIGHTS



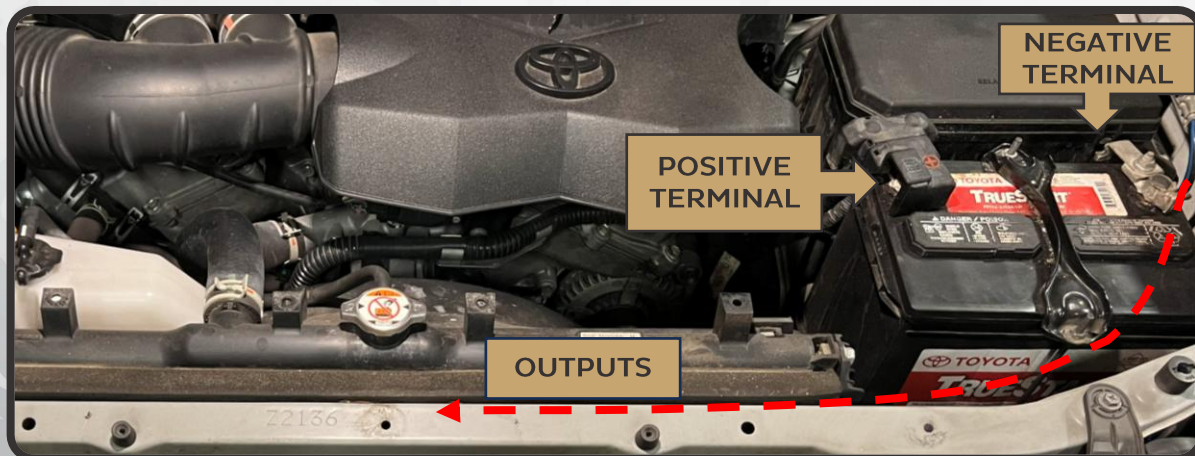
29. LAY OUT THE PROVIDED RELAY HARNESS IN THE ENGINEBAY (WIRE DIAGRAMS ON PAGES 18-19)

- A. CONNECT THE RING TERMINALS TO THE CORRESPONDING POSITIVE AND NEGATIVE TERMINALS ON THE BATTERY
- B. MOUNT YOUR RELAY UPRIGHT IN A SUITABLE LOCATION NEAR THE BATTERY
- C. ROUTE YOUR OUTPUTS TO THE CENTER OF THE RADIATOR SUPPORT
- D. CONNECT YOUR TRIGGER WIRE OR BUTTON

- 1) CONNECT THE TRIGGER WIRE TO YOUR EXISTING SWITCH PANEL OR DESIRED TRIGGER-SOURCE

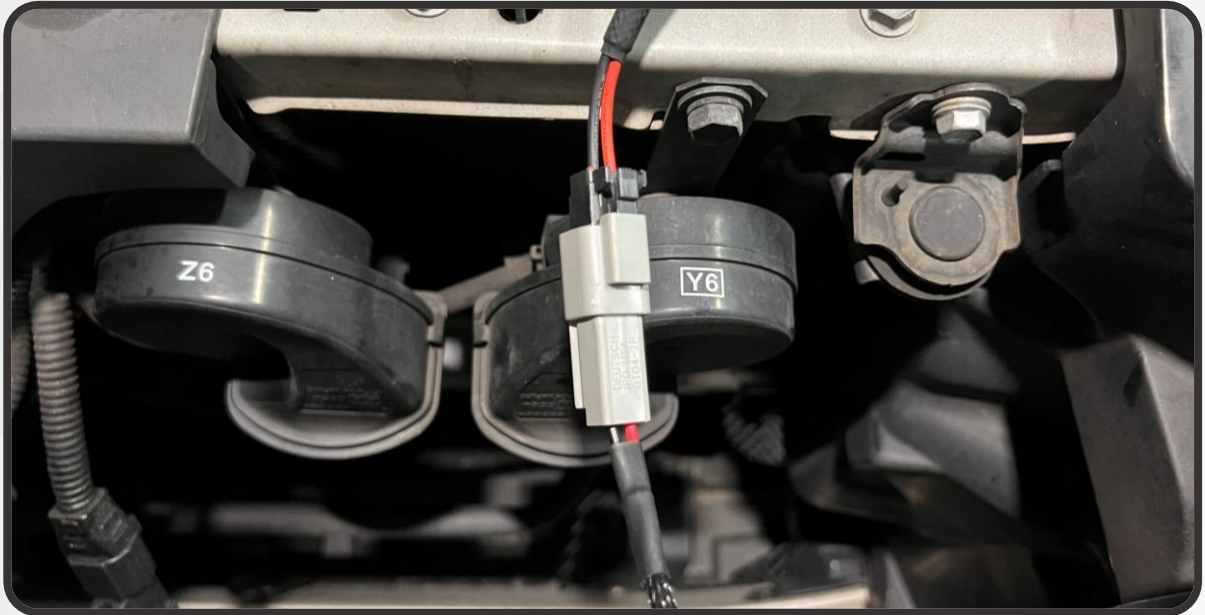
-OR-

- 2) ROUTE THE INCLUDED PUSH-BUTTON INTO THE CABIN OF THE VEHICLE (WE RECOMMEND USING THE FIREWALL GROMMET SHOWN ON PAGE 12/STEP 22) AND DRILL A 3/4" HOLE IN YOUR DESIRED LOCATION TO MOUNT THE BUTTON



WIRING

32. CONNECT THE TWO OUTPUTS ON THE RELAY HARNESS TO THE TWO INPUTS ON THE GRILLE HARNESS (IT DOES NOT MATTER WHICH GOES TO WHICH)



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



**DAYTIME RUNNING
LIGHT**



PARKING LIGHT



MAIN BEAM

34. SECURE ANY LOOSE/EXCESS WIRES USING ZIPTIES. BE SURE ALL WIRES ARE OUT OF THE WAY OF ANYTHING THAT MOVES OR GENERATES EXCESSIVE HEAT SUCH AS FANS, BELTS, OR EXHAUST COMPONENTS

35. REINSTALL THE RADIATOR COVER



WIRING

WIRING DIAGRAM FOR GRILLE/2BANGER INSTALLATION WITH STOCK HEADLIGHTS

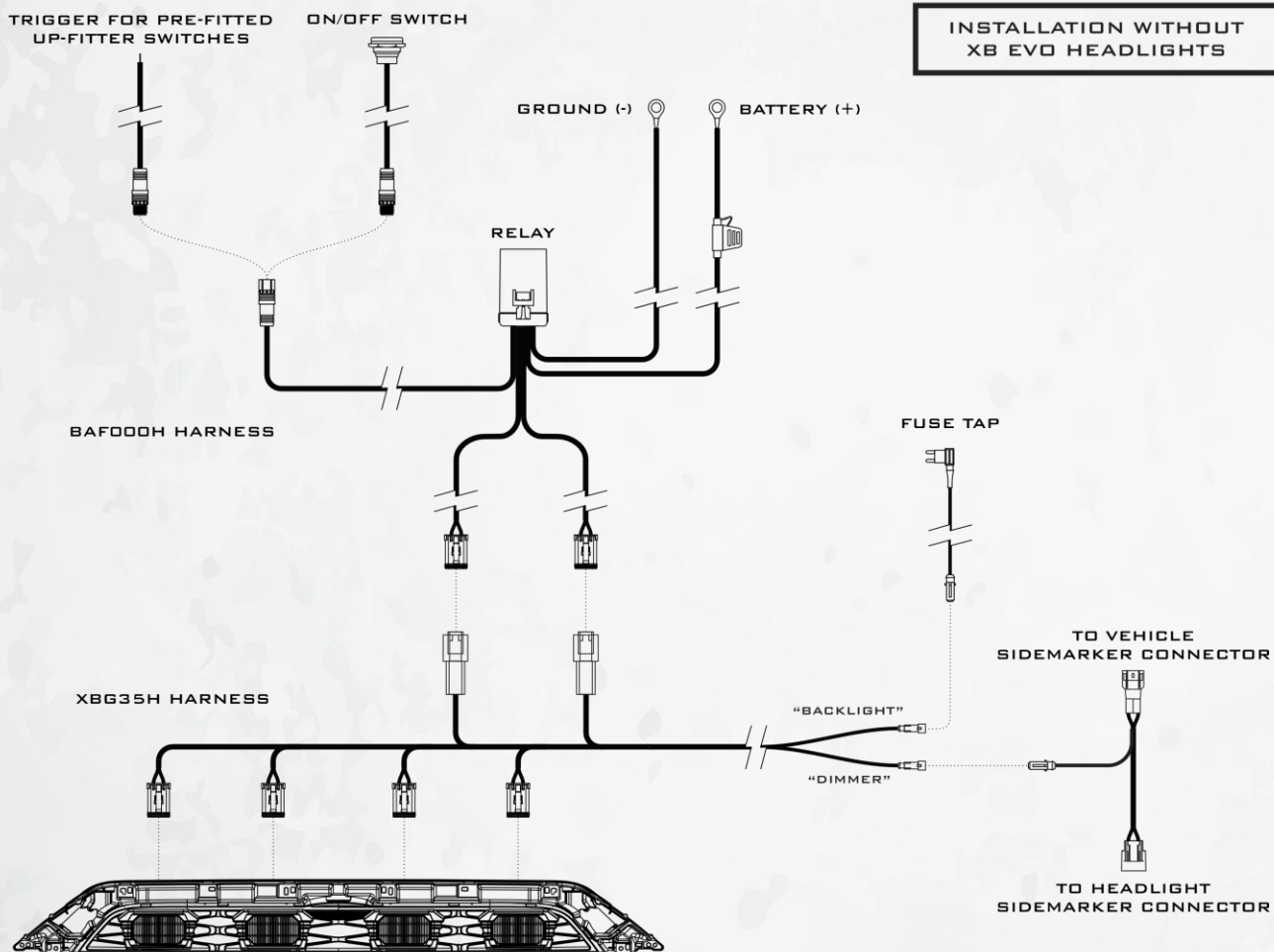


DIAGRAM NOT TO SCALE



WIRING

WIRING DIAGRAM FOR GRILLE/2BANGER INSTALLATION WITH MORIMOTO XB EVO HEADLIGHTS

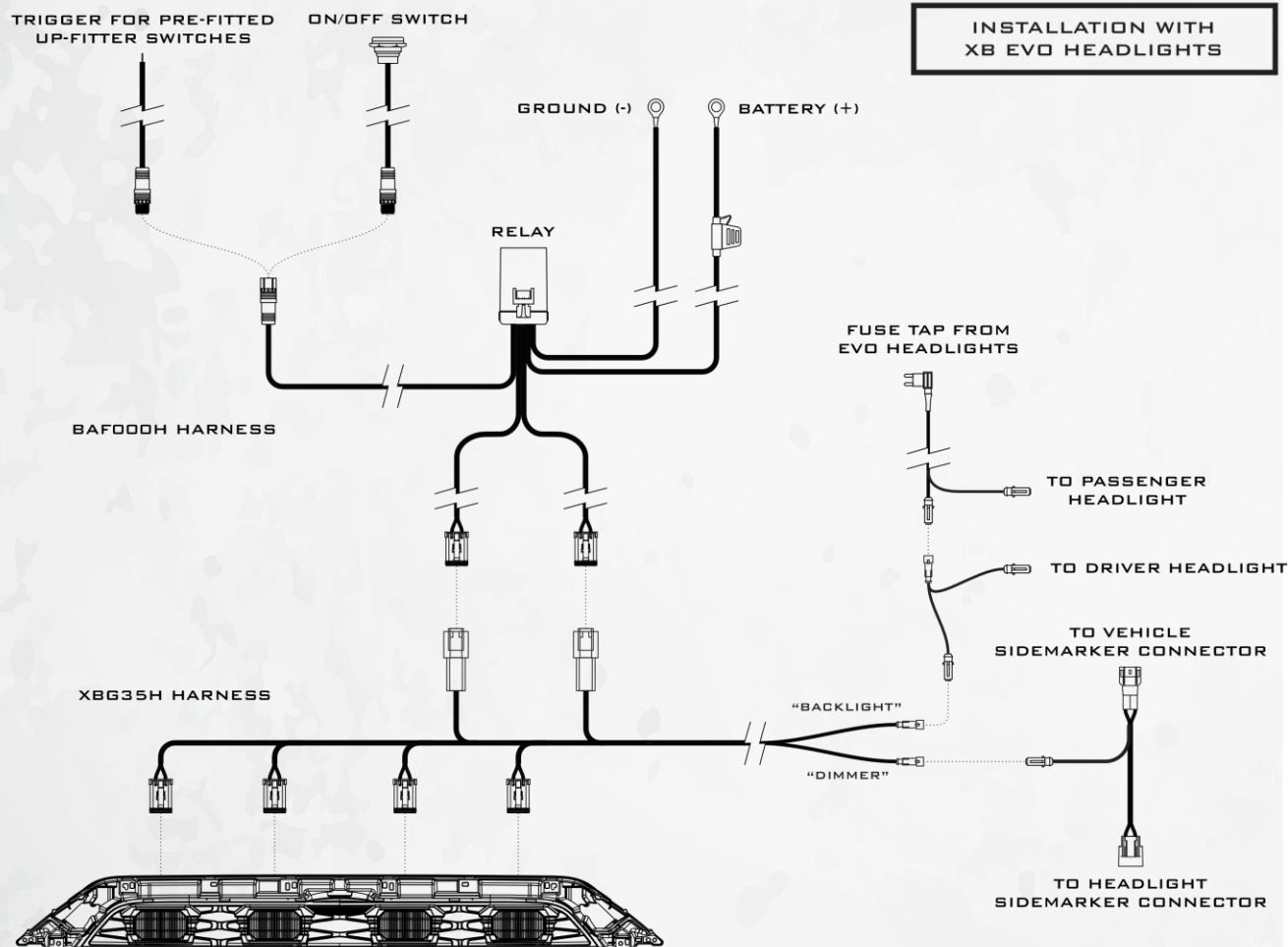


DIAGRAM NOT TO SCALE



XBG LED GRILLE: TOYOTA 4RUNNER (14-24)



- ENJOY YOUR NEW MORIMOTO 2BANGER GRILLE! -

