

# ULTRA 3

LED

## INSTALL GUIDE

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.



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2X ULTRA 3 BULBS



1X ALLEN KEY (SELECT BULB SIZES ONLY)

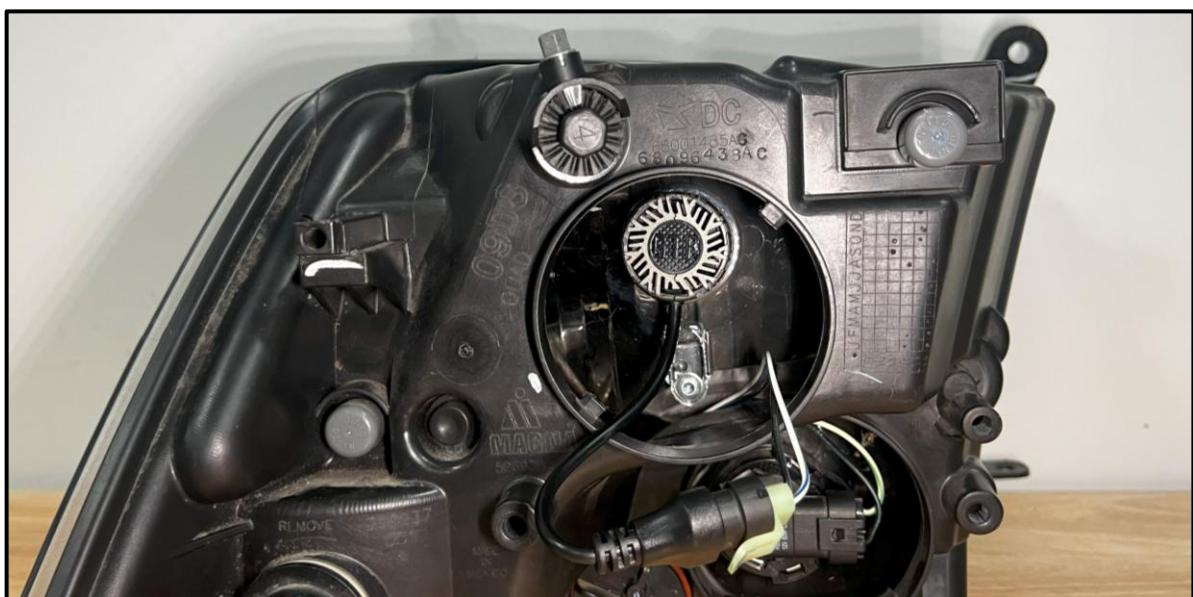
# ULTRA 3 LED BULBS

NOTE: THIS DOCUMENT IS MEANT TO SERVE AS A GENERAL GUIDE FOR INSTALLING THE ULTRA 3 LED BULB. ACTUAL INSTALL PROCESS WILL VARY FROM HOUSING TO HOUSING. CONSULT YOUR MAINTENANCE MANUAL FOR VEHICLE SPECIFIC INSTRUCTIONS FOR ACCESSING AND REMOVING YOUR BULBS.

1. REMOVE HOUSING CAP(IF APPLICABLE) AND UNPLUG AND REMOVE THE ORIGINAL HALOGEN BULB FROM THE HOUSING

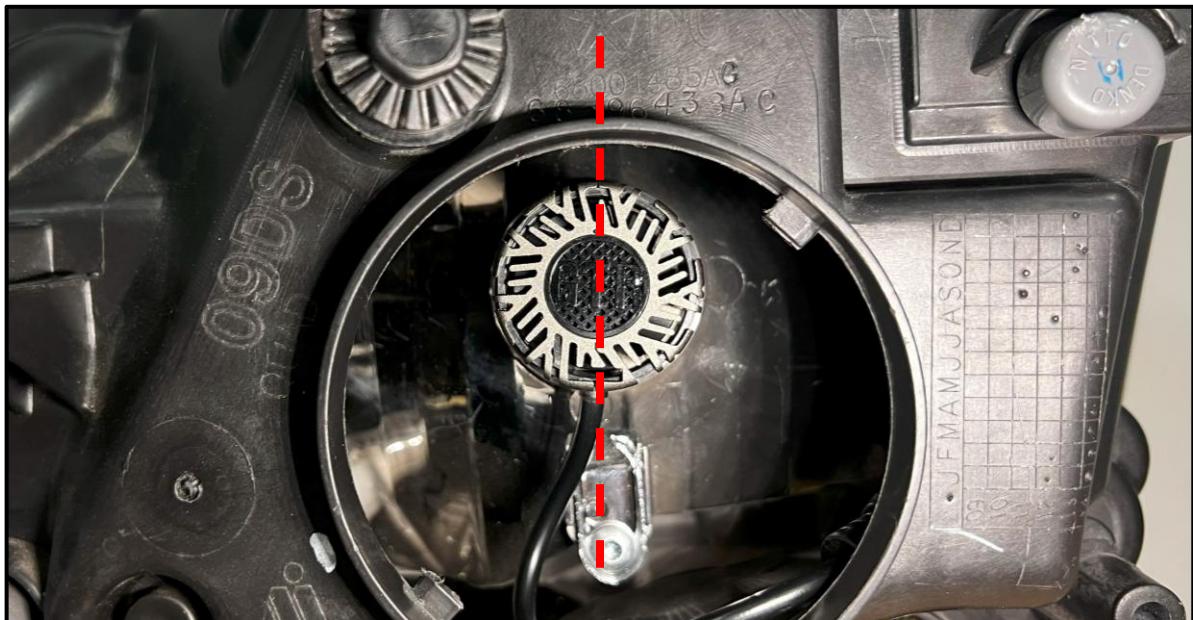


2. INSTALL THE ULTRA 3 INTO THE HOUSING AND PLUG THE BULB INTO THE FACTORY WIRING



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3. WITH THE BULB INSTALLED, THE LED CHIPS SHOULD BE FACING OUT IN THE 3 AND 9 O'CLOCK POSITIONS, AND THE WIRE COMING OUT OF THE BOTTOM OF THE LED. TURN THE LIGHTS ON AND CONFIRM YOUR BEAM PATTERN MATCHES THE FACTORY BEAM PATTERN. SOME FINE TUNING MAY BE REQUIRED TO OPTIMIZE THE BULB ALIGNMENT



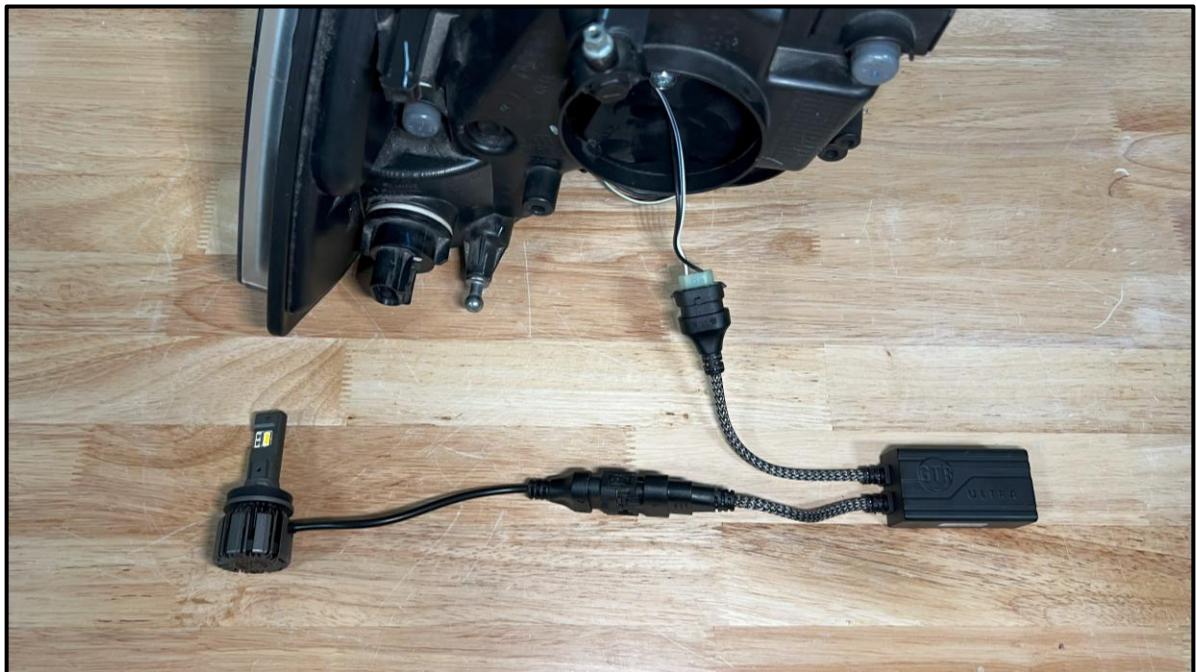
4. TO ADJUST THE ROTATION OF THE BULB, REMOVE IT FROM THE HOUSING AND USE THE PROVIDED ALLEN KEY TO LOOSEN THE SET SCREW ON THE COLLAR (SET SCREW MAY BE LOCATED BEHIND THE RUBBER SEAL ON THE COLLAR). WITH THE SET SCREW LOOSEND, ROTATE THE COLLAR TO ACHIEVE THE DESIRED BULB ALIGNMENT. THEN, HAND TIGHTEN DOWN THE SET SCREW, REINSTALL THE BULB, AND CONFIRM THAT IT IS NOW CORRECTLY ORIENTED. MAKE ADDITIONAL ADJUSTMENTS IF NECESSARY

NOTE: SELECT SIZES (H7, H4/9003, 9004/9007, AND H13/9008) DO NOT USE THE SET SCREW AND CAN BE CLOCKED BY HAND. 5202/2504 CANNOT BE CLOCKED



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5. IF YOUR VEHICLE REQUIRES ANTI-FLICKER PWM MODULES (AVAILABLE SEPARATELY), INSTALL THE MODULE INLINE BETWEEN THE BULB AND FACTORY WIRING AS SHOWN BELOW



6. FOR VEHICLES WITH INTERNALLY-WIRED HEADLIGHTS (WITH A HOUSING CAP), TUCK THE WIRING INTO THE HOUSING AND REINSTALL THE HOUSING CAP. IF THE FITMENT OF THE ORIGINAL CAP IS COMPROMISED BY THE LED BULB, YOU WILL NEED TO EITHER ADD RUBBER HOUSING CAP EXTENSIONS (AVAILABLE SEPARATELY, SHOWN BELOW), OR DO NOT USE THESE BULBS. THE HOUSING MUST REMAIN SEALED AS IT WAS WITH THE FACTORY BULBS

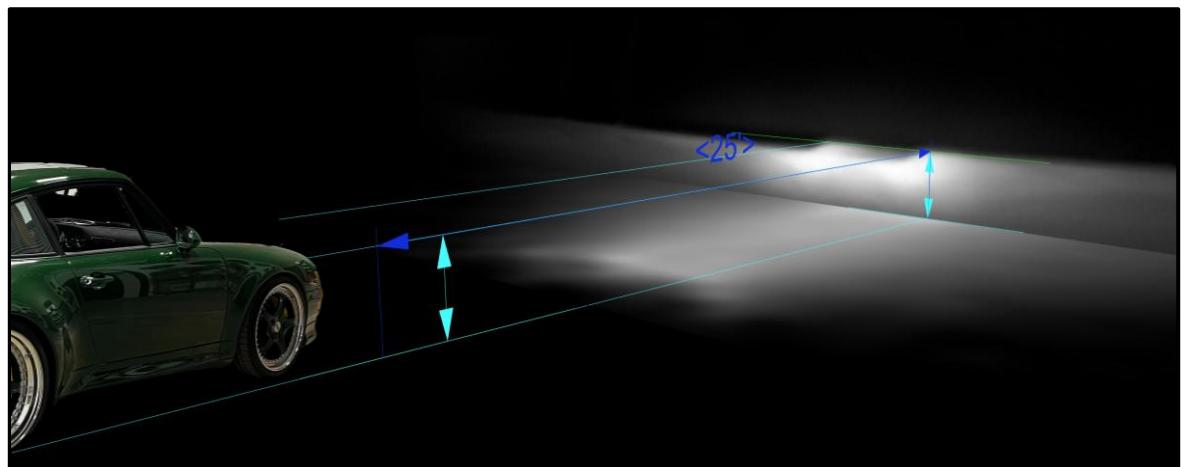


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7. ONCE YOU'VE COMPLETED THE INSTALLATION OF YOUR NEW BULBS, WE RECOMMEND CONFIRMING THAT YOUR HEADLIGHTS ARE PROPERLY AIMED FOR MAXIMUM PERFORMANCE. FOLLOW THE INSTRUCTIONS BELOW TO AIM YOUR LOW BEAM'S CUTOFF (THE UPPER HORIZONTAL EDGE OF THE LOW BEAM):

WITH THE VEHICLE PARKED ON LEVEL GROUND, 25' FROM A WALL, MEASURE THE DISTANCE FROM THE GROUND TO THE CENTER OF THE LOW BEAM BULB

- IF THE DISTANCE FROM THE GROUND TO THE LIGHT 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



- ENJOY YOUR NEW GTR LIGHTING ULTRA 3S! -