



INSTALLATION INSTRUCTIONS

WARN POWERSPORTS HID and Halogen LIGHTS

WXT200 Halogen Spot (83553) / Flood (83554)
WXT200 HID Spot (83552), WXT400 HID Driving (83555)

Your safety, and the safety of others, is very important. To help you make informed decisions about safety, we have provided installation and operating instructions and other information on labels and in this guide. This information alerts you to potential hazards that could hurt you or others. It is not possible to warn you about all potential hazards associated with this product, you must use your own good judgment.

CARELESS INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY OR EQUIPMENT DAMAGE. READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND OPERATING INSTRUCTIONS BEFORE INSTALLING AND OPERATING THIS PRODUCT.

This guide identifies potential hazards and has important safety messages that help you and others avoid personal injury or death. **WARNING** and **CAUTION** are signal words that identify the level of hazard. These signal words mean:

▲ WARNING signals a hazard that *could* cause serious injury or death, if you do not follow recommendations. **▲ CAUTION** signals a hazard that *may* cause minor to moderate injury, if you do not follow recommendations.

This guide uses **NOTICE** to call attention to important mechanical information, and **Note**: to emphasize general information worthy of special attention.

Table of Contents

Introduction / Product description	1
Parts	1
Tools Required	1
Installation.....	2
Operation / Troubleshooting	3
Aiming the Lights	4
Service and Accessory Parts	5
Maintenance / Performance Tips	6

Introduction: Thank you for choosing WARN Extreme Terrain Lights for your high performance lighting needs. They have been designed and manufactured for many years of problem-free operation. Warn Extreme Terrain lights will only run on a DC electrical system. Contact your local Warn dealer if you have any questions. For future reference please record the following information:

Model/Part Number _____ Date of Purchase _____

Before you begin:

- Review all the notices, cautions and warnings to make sure the kit will be installed correctly and safely.
- Some of the WARN lighting products may be subject to regional laws regarding street use and placement. Please check your regional laws prior to installing and using the light products.
- Layout the toggle switch with harness and lights in the approximate locations to make sure that the harness lengths are long enough to connect all the components. WARN offers an extension wire harness if extra wire length is required to mount lights in desired location. Don't forget to route the harness so it can be connected to the battery.

Parts List:

- WXT Lights (2)
- Wire Harness (1)
- Toggle Switch (1)
- Cable Ties (6)

Tools Required:

- 17 mm wrench
- 19 mm wrench
- 13/32" drill (2" light post)
- 15/32" drill (light switch)
- 1/2" drill (4" light post)

General Safety Precautions

⚠ CAUTION

Electrical Hazard

Failure to observe these instructions could lead to minor or moderate injury.

- Always disconnect battery ground before working on lights.
- Always ensure the lights are properly grounded.
- Never lean over battery while connecting.
- Always remove jewelry and wear eye protection during installation.
- Always verify area is clear of fuel lines, fuel tank, brake lines, electrical wires, etc when drilling.

⚠ CAUTION

Electrical, Burn and Fire Hazard

Failure to observe these instructions could lead to minor or moderate injury.

- Always use only the control switch and harness provided with kit.
- Never modify the bulb, switch, harness, ballast or use bulbs other than those specified.
- Never touch the lamp during or immediately after use with finger or bare skin.
- Never look at lamp or work near operating lamp for extended time.

⚠ NOTICE

Equipment Damage

- Never turn the lights on and off frequently.
- Always select a flat spacious area for installation.
- Always make sure bolts are adequately tightened.
- Always install light such that drain hole is at bottom, allowing any moisture to drain.

Install the Lights:

Disconnect the negative (-) ground cable from the battery.

1. Select a location on the vehicle to mount the lights.
 - The location should provide a solid, vibration-free mounting point that has adequate clearance for the light housing and access to the mounting hardware.
 - The mounting surface should be flat and larger than the light mounting bracket base.
 - The lights should be mounted in the upright (stem down) position to reduce the possibility of water entry.
 - Either use Warn mounting clamps or drill a 13/32" hole for each 2" light stem (1/2" hole for each 4" light stem). Remove the two hex nuts from the light stem and insert stem into mounting hole. Reinstall nuts when the light is in position. "Double-nutting" will ensure the lights are secure and won't vibrate loose.

Install the Toggle Switch:

1. Select a location for the toggle switch.
 - The location should be easily accessible, without risk of being accidentally turned on.
2. Mount the switch through the plastic body of the vehicle in an area that it will not be accidentally turned on. Use a drill and 15/32" drill bit to make hole in area to be mounted.

CAUTION: Use extreme caution when drilling. Be sure that nothing inside the body will be damaged when drilling through the plastic.

Be sure to install the switch boot over the toggle switch to prevent water entry into the switch.

⚠ CAUTION

Electrical and Fire Hazard

Failure to observe these instructions could lead to severe injury or death.

- Never route wiring harness near hot surfaces, sharp edges or moving parts.
- Always tie harness down to avoid damage, electrical short or fire.

NOTICE

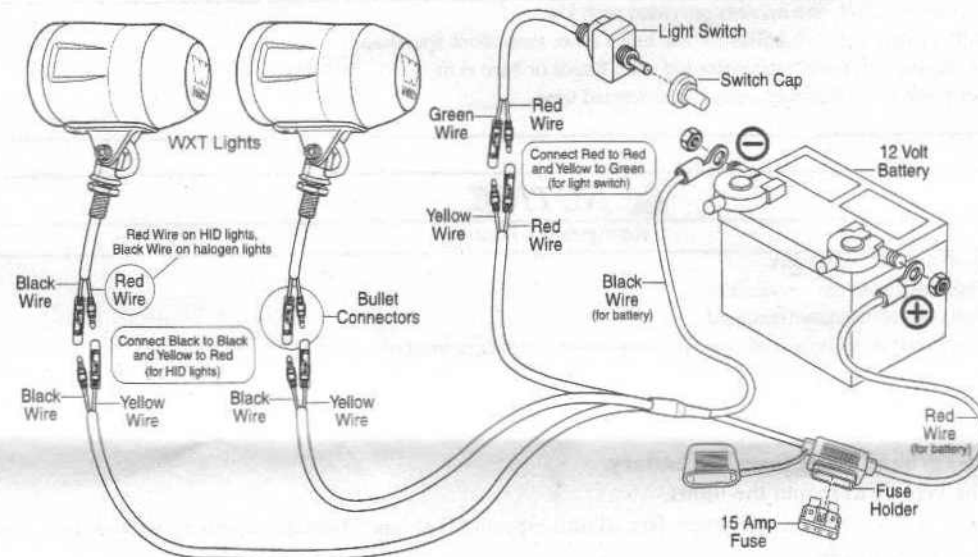
Equipment Damage

- Always securely attach the harness to the vehicle with wire ties to prevent it from coming loose.
- Always securely bundle excess harness wires with wire ties.
- Never reverse positive (+) and negative (-) wire leads.
- Never pull or tug on harness.

Connect the Wire Harness: (Refer to Figure 1)

1. Make the connections between wire harness, lights, and switch as outlined in Figure 1.
2. At switch / harness interface connect Red wire to Red wire and Green wire to Yellow wire.
3. At light / harness interface connect Black wire to Black wire and Red wire to Yellow for HID lights. (On halogen lights connect Black wire to Black wire, and Black wire to Yellow wire.)

Caution: Warn WXT HID lights have a polarity requirement – backwards wiring will damage the lights! Bullet connectors on the wire harness and lights will ensure proper polarity.



Final connections

1. Connect the red wire to the positive (+) 12 volt DC battery terminal.
2. Connect the black wire to the negative (-) battery terminal.
3. Use wire ties to securely attach wires to vehicle and bundle excess harness wires.
4. Reconnect the vehicle battery cables, negative (-) ground last.

Troubleshooting:

Switch is toggled but lights do not turn on:

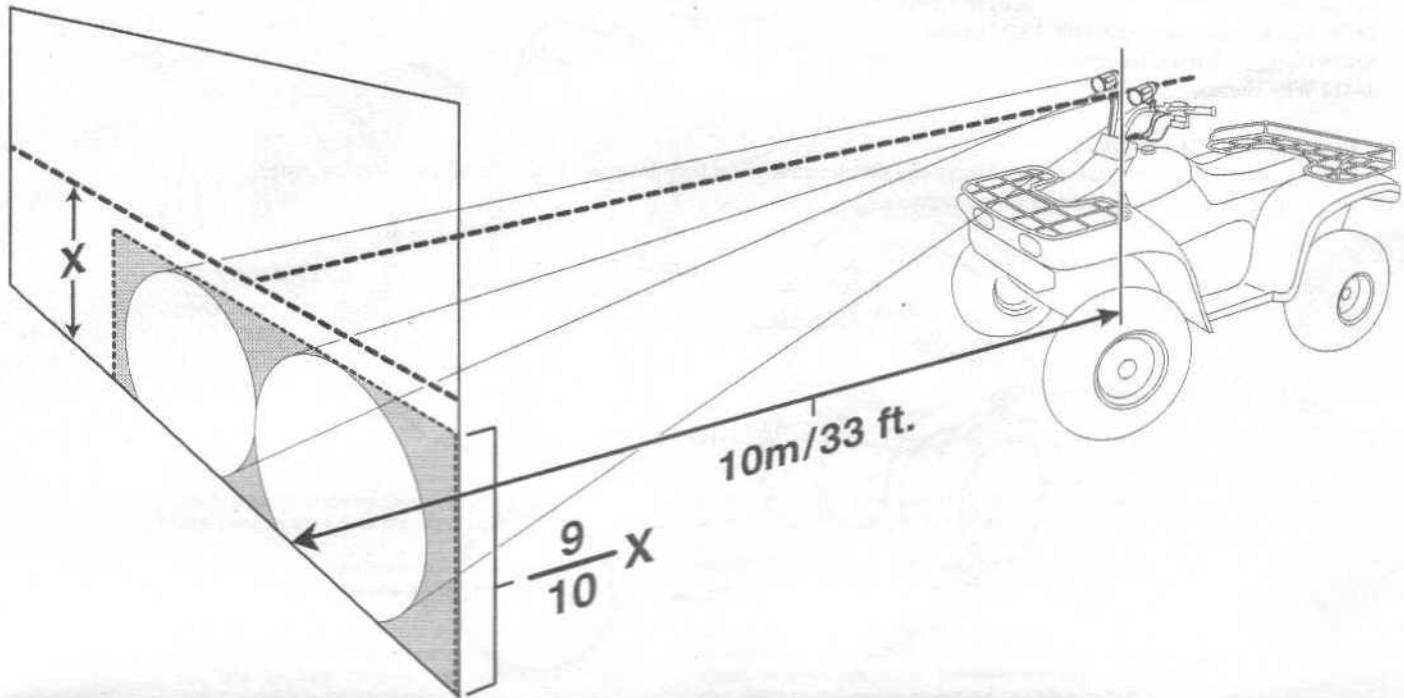
1. If lights do not turn on: Check fuse and replace if needed.
2. If fuse is good and lights do not turn on: Check wiring connections.
3. If still not functioning have problem diagnosed by service center.

Aiming the Lights

Locate the vehicle on level ground 10m (33 feet) from a flat wall.

On the vehicle measure the distance from the ground to center of light and put a mark at the same distance from the ground on the wall.

Turn on lights and ensure the top of the beam pattern is not over 90% of the height of the mark on the wall. Adjust lights as required.



⚠ CAUTION

Electrical and Burn Hazard

Failure to observe these instructions could lead to severe injury or death.

- Always disconnect battery ground before working on lights.
- Always insure power is off, before cleaning, detaching and installing.
- Never turn on the bulb outside of the light body.
- Always avoid areas where flammable or burnable items are present.
- Always ensure the bulb connector is locked securely.

⚠ CAUTION

Burn and Fire Hazard

Failure to observe these instructions could lead to minor or moderate injury

- Always use only the specified bulb.
- Never touch the lamp during or immediately after use with finger or bare skin.
- Never touch the glass part of the bulb.

⚠ NOTICE

Equipment Damage

- Never drop, bump or apply unnecessary force to any part of the WARN light system.
- Never pull or tug on harness.

Service Parts

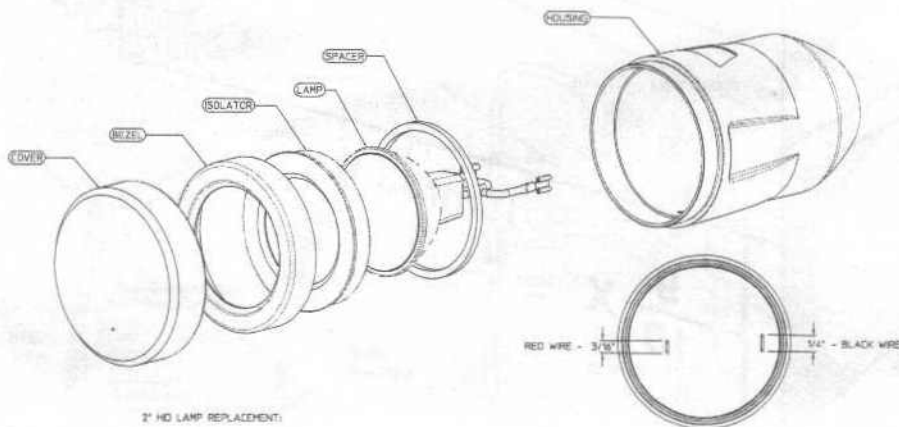
- 83564 Lamp (Arc Tube) Assy, WXT200 HID Spot
- 83565 Bulb, WXT200 Halogen Spot
- 83566 Bulb, WXT200 Halogen Flood
- 83567 Lamp (Arc Tube) Assy, WXT400 HID Driving
- 84278 Single Light Assy, WXT200 HID Spot
- 84279 Single Light Assy, WXT200 Halogen Spot
- 84280 Single Light Assy, WXT200 Halogen Flood
- 84281 Single Light Assy, WXT400 HID Driving
- 63814 Switch, Weather Resistant
- 84411 Wire Harness

Accessory Parts

- 84412 Extension Harness
- 83562 WXT200 Clear Light Covers
- 83563 WXT200 Amber Light Covers
- 84413 WXT400 Clear Light Covers
- 84414 WXT400 Amber Light Covers

Lamp Replacement: WXT200 HID

Disconnect battery ground (-) cable from battery and the electrical wires from the rear of the light before changing lamp. When finished reconnect the electrical connections.

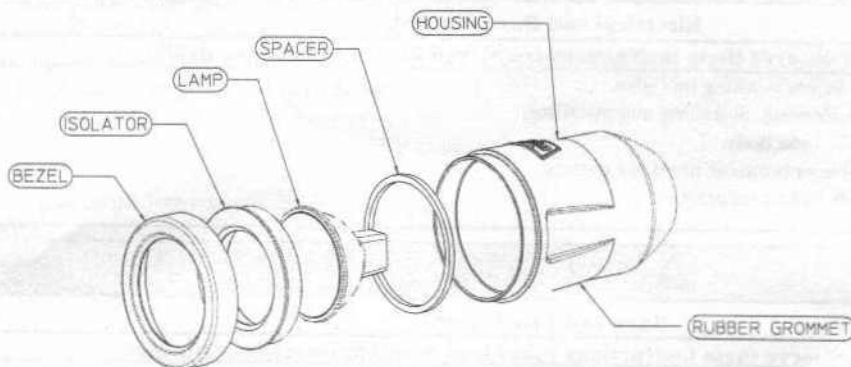


2" HID LAMP REPLACEMENT:

1. UNSCREW BEZEL FROM HOUSING. LIGHT COVER CAN BE USED TO GRIP THE BEZEL. DO NOT ALLOW THE LAMP TO ROTATE IN THE HOUSING.
2. REMOVE LAMP AND ISOLATOR FROM HOUSING. DISCONNECT THE TWO LAMP LEADS FROM THE BALLAST.
3. PLUG NEW LAMP INTO BALLAST. THE BLACK WIRE GOES TO THE LARGER (1/4") TERMINAL AND THE RED WIRE GOES TO THE SMALL (3/16") TERMINAL. BE CAREFUL NOT TO BEND THE TERMINALS DURING INSTALLATION.
4. BE SURE SPACER IS PROPERLY SEATED IN HOUSING AND INSTALL LAMP INTO THE HOUSING.
5. SCREW THE BEZEL ONTO THE HOUSING. DO NOT ALLOW THE LAMP TO ROTATE IN THE HOUSING OR DAMAGE TO THE WIRING MAY OCCUR. A SMALL AMOUNT OF ISOPROPYL ALCOHOL CAN BE USED TO LUBRICATE THE BEZEL, MAKING INSTALLATION EASIER.

Lamp Replacement: WXT200 Halogen

Disconnect battery ground (-) cable from battery and the electrical wires from the rear of the light before changing lamp. When finished reconnect the electrical connections.

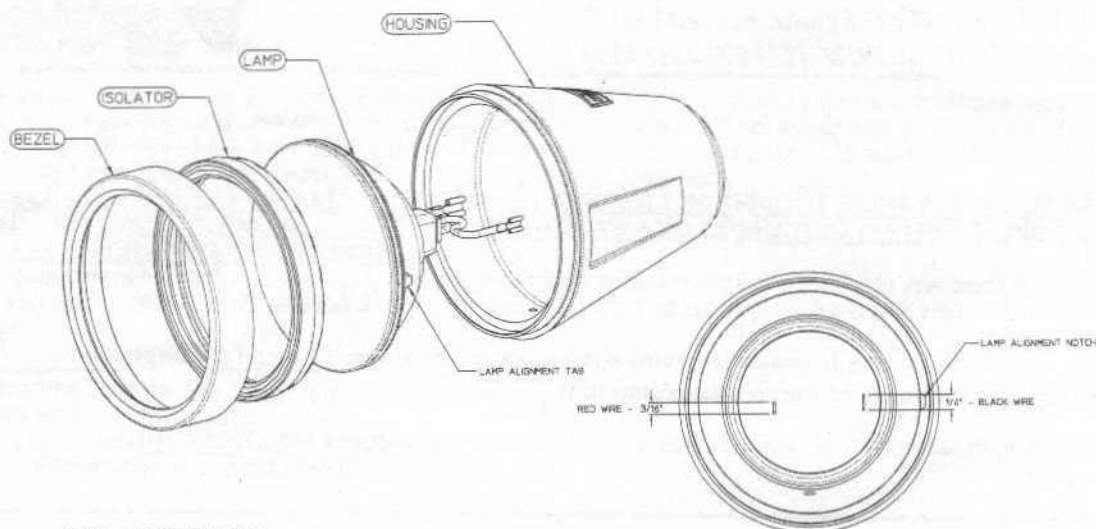


2" HALOGEN LAMP REPLACEMENT:

1. UNSCREW BEZEL FROM HOUSING. LIGHT COVER CAN BE USED TO GRIP THE BEZEL. DO NOT ALLOW THE LAMP TO ROTATE IN THE HOUSING.
2. CUT THE TERMINAL FROM THE WIRE EXITING THE MOUNT POST.
3. REMOVE THE LAMP AND ISOLATOR FROM THE HOUSING. MAKE NOTE OF THE WIRE ROUTING FOR INSTALLING THE REPLACEMENT LAMP. PULL THE WIRES THROUGH THE HOUSING, TAKING CARE NOT TO DAMAGE THE RUBBER GROMMET ON THE BOTTOM.
4. ROUTE THE WIRES FROM THE NEW LAMP THROUGH THE SPACER, THEN THROUGH THE HOUSING. MATCH THE WIRE ROUTING FROM THE ORIGINAL LAMP.
5. BE SURE THE SPACER IS PROPERLY SEATED IN THE HOUSING AND INSTALL THE ISOLATOR ONTO THE NEW LAMP. INSTALL THE NEW LAMP INTO THE HOUSING.
6. SCREW THE BEZEL ONTO THE HOUSING. DO NOT ALLOW THE LAMP TO ROTATE IN THE HOUSING OR DAMAGE TO THE WIRING MAY OCCUR. A SMALL AMOUNT OF ISOPROPYL ALCOHOL CAN BE USED TO LUBRICATE THE BEZEL, MAKING INSTALLATION EASIER.
7. INSTALL SLEEVES ONTO THE NEW LAMP LEADS, AND CRIMP THE SUPPLIED BULLET TERMINALS. FOR HALOGEN LAMP, THE WIRE POLARITY IS INDEPENDANT. THE MALE AND FEMALE TERMINALS CAN BE APPLIED TO EITHER WIRE.

Lamp Replacement: WXT400 HID

Disconnect battery ground (-) cable from battery and the electrical wires from the rear of the light before changing lamp. When finished reconnect the electrical connections.



4" HID LAMP REPLACEMENT

1. UNSCREW BEZEL FROM HOUSING. DO NOT ALLOW THE LAMP TO ROTATE IN THE HOUSING.
2. REMOVE THE LAMP AND ISOLATOR FROM THE HOUSING. DISCONNECT THE TWO LAMP LEADS FROM THE BALLAST.
3. PLUG NEW LAMP INTO BALLAST. THE BLACK WIRE GOES TO THE LARGER (1/4") TERMINAL, AND THE RED WIRE GOES TO THE SMALLER (3/16") TERMINAL. BE CAREFUL NOT TO BEND THE TERMINALS DURING INSTALLATION.
4. INSTALL ISOLATOR ONTO NEW LAMP. BE SURE TO ALIGN THE NOTCH IN THE ISOLATOR WITH THE TAB ON THE LAMP.
5. INSTALL THE LAMP INTO THE HOUSING. BE SURE TO ALIGN THE TAB ON THE LAMP WITH THE NOTCH IN THE HOUSING.
6. SCREW THE BEZEL ONTO THE HOUSING. DO NOT ALLOW THE LAMP TO ROTATE IN THE HOUSING OR DAMAGE TO THE WIRING MAY OCCUR. A SMALL AMOUNT OF ISOPROPYL ALCOHOL CAN BE USED TO LUBRICATE THE BEZEL, MAKING INSTALLATION EASER.

Maintenance/Performance Tips

Your new high performance lights are extremely bright for their size. With proper care they will last for many years. To maintain high luminous output and to extend lamp life, mount the lights where they will be exposed to air flow, and avoid running the lights when there is no air flow at all.

HID lights will take approximately 30 seconds to light to full intensity after being turned on.

Do not submerge the lights in water.

Use extreme caution when cleaning with a pressure washer. Do not directly spray lights with high pressure water.

High humidity environments may result in condensation forming behind light lens, this will dissipate as light heats up to normal operating temperature.