

# RECON

In This DIY We Will Show You How To Install Recon Backup Lamps (part # 264150 To Run On A Separate Switch & In Reverse.



Please Note, There Are Many Ways of Installing These Lights, Including Wiring Methods, Wiring Connectors, And Other Variables

- Go Over The Parts Included In The Kit That You Received – Confirm All Items Are In The Box.

## You Should Have

- 2 Projector Lamps
- 1 Switch
- Wire Harness

Tools Required:



A Good Assortment of Hand Tools are Recommended, Required Hand tools Are As Followed:

- Drill
- Drill Bit Set
- Phillips Bit
- DC Voltage Meter
- Screw Drivers Phillips & Flat Head (Small Flat Head)
- Wire Strippers & Crimper's
- Choice of Connectors +/- Soldering Tools
- Electrical Tape

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The Following Are Additional Components You'll Need To Get To Install Exactly As Indicated On These Instructions:

- Insulated Terminal Connectors
- Heat Shrink Tubing
- Stranded LV Wire (Spec'd At Least At 20 Amp)
- 30A Relay (Auto 12V)
- 1N4005 Diode



- 4 Stainless Bolts
- 4 Stainless Washers
- 4 Stainless Lock Washers
- 4 Stainless Nuts
- At Least 15ft of Wire Loom



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## Projector Layout & Drilling.

It Is Not Required, But Disconnecting Your Batteries Negative Cable Is Recommended  
**Figure Out Where You Want To Mount Your Backup Lamps**



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- Find A Center Point To Measure Off Of.
- Now, Make Two Marks Per Projector Lamp - 7/8" Apart



- With The Holes Laid Out, Drill Using Proper Drill Bit (According To Bolt Diameter)
- You Can Now Mount The Projectors, Flip Down The Bracket To Allow Hardware To Slip In (Make Sure The Bolt Head Is On The Bottom Side)



- With The Hardware Installed - Flip The Projector Up and Tighten The Hinge.

## You Are Now Set To Wire - Running Wires - Front To Back

I Have Found It Easier To Prepare The Wire & Loom First - Then Run It Along The Frame Rail.

- Stretch Out Approx. 15ft Of Wire Loom
- Run 2 - 15' Lengths of Wire Through The Loom (One Will Be For The Reverse Lamp Wire, One For The Projectors)



- Be Sure To Mark Each End Of The Wires. Label One Wire: Backup Lamps - and Label The Other: Reverse Light
- With The Pre- Wired Loom, Run It From The Rear To The Front - Along The OEM Wire Loom. Tie Up Loom.

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## Tie Into Backup Lamps & Wire Projectors

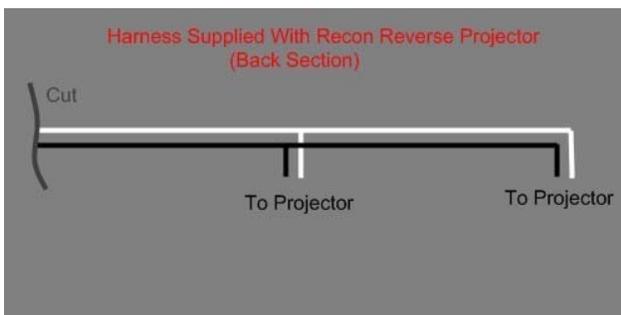
- **Locate The OEM Wires Going To Your Tail lamp - Peel The Wires Out From The Loom**



- **With A Multi Meter, Find Out Which Wire Powers Your Reverse Light Bulb**
- **Cut Out A Section of Wire To Solder To & Solder To The New Wire Labeled "Reverse Light"**



- **Tape and Cover Splice With Loom**
- **With The Supplied Wire Harness (The One That Came With The Recon Projectors) Cut The White and Black Wires Designed To Wire Up The Projectors - Approx. Half Way.**



- **Loom The Harness & Connect Harness Power To The Newly Ran Wire Labeled "Backup Lamps"**  
\* **To Protect Connectors From Weathering - Be Sure To Use Heat Shrink Connectors - Or Heat Shrink Tubing.**

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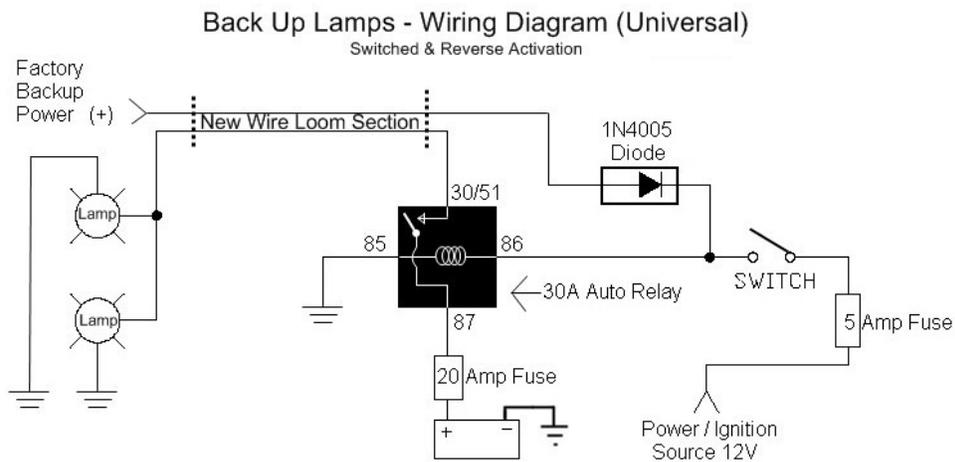
- Connect Harness To Projectors
- Connect Harness To A Solid Ground (To Prevent Rusting, It Is Recommended To Spray Terminals With Rust Blocking Agent)



- Finish Running Loom Around Wires, Tape And Zip Tie Everything Up.

The Rear Is Now Complete.

Onto The Front Layout & Wiring Switch - \*\* This Is The Wiring Diagram To Use While Wiring Your Setup



It Is Now Time To Wire The Front, You Will Need To Find A Location To Run Through Your Firewall. Either Drill Through Your

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Firewall & Use Sealed Grommets (Recommended). Or Find An Existing Hole To Run Your Wires.



- Find The Location You Would Like To Mount Your Switch
- Wire Your Switch With The Remaining Part of The Harness Supplied With Your Recons. Wired Accordingly

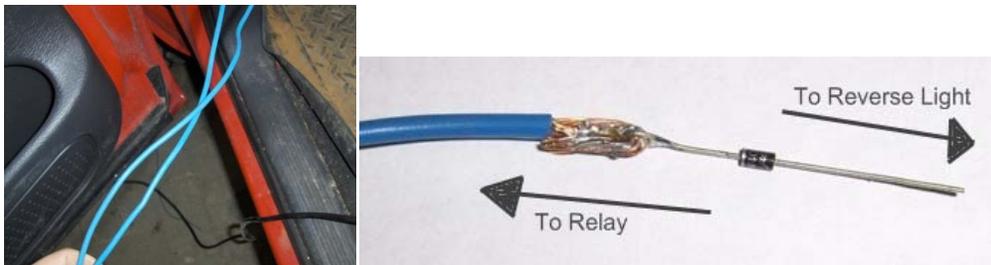
**\*\* The Fused Power Wire Is Not The Power Wire Being Ran To Power The Reverse Projector Lights (This Should Be A 5 Amp Fuse)**

- It Is Required At This Time, To Decided Where To Mount The Relay. In This Install, I Chose The Drivers Side Panel On The Dash - Which Will Simply Pop Off With A Small Screw Driver. The Relay Can Then Screw Onto The OEM Dash Screw.



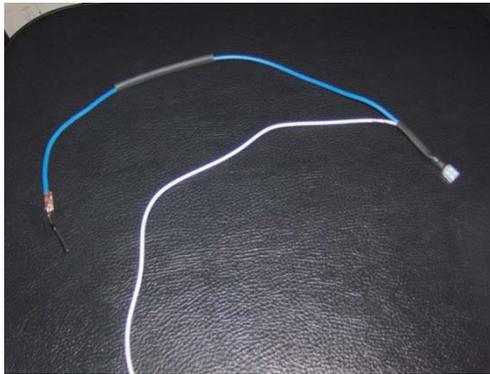
## You Are Now Ready To Wire The Relay - Wiring The Relay

- Start By Running The Wires Ran From The Rear, Up To The Open Panel In The Dash.



- Cut A Short Piece of Wire, Strip Both Ends - Install The 1N4005 Diode - With The Wire Ran From The OEM Reverse Lamps, - **\*\*\*BE SURE TO INSTALL FACING THE PROPER WAY\*\*\*** The Stripe On The Diode Should Be Facing The Rear Use Heat Shrink To Protect The Diode

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- **Connect The Strip of Wire Connected To The Diode To The *White* Wire From Your Switch (This Will Be The 86 Terminal On The Relay)**
- **Run A Power Wire From Your Battery (+) and Install A 15-20AMP Fuse & Holder. (This Will Be The 87 Terminal On Your Relay)**



- **Connect The Power Wire That Is Going To The Recon Projector Lights. (This Will Be The 30/51 Terminal On The Relay)**
- **Now Run A Adequate Ground Wire (This Will Be 85 Terminal on The Relay)**

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**Tuck In All Your Wires, And Test The System.**

**At This Time Your Projectors Should Work Off Of The Switch & While Vehicle Is In Reverse. You're Done!!!**