

Beacon Light Installation

All 1998 – Current Model GEM Vehicles

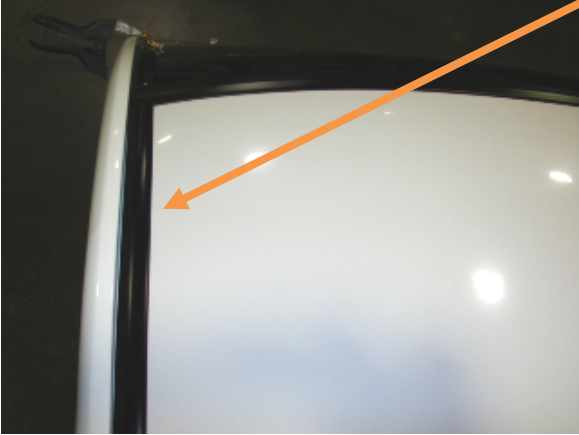

WARNING! TO PREVENT PERSONAL INJURY OR PROPERTY DAMAGE BE SURE TO TURN THE MASTER DISCONNECT SWITCH (MDS) TO THE ‘OFF’ POSITION BEFORE ATTEMPTING ANY SERVICE TO THE VEHICLE.



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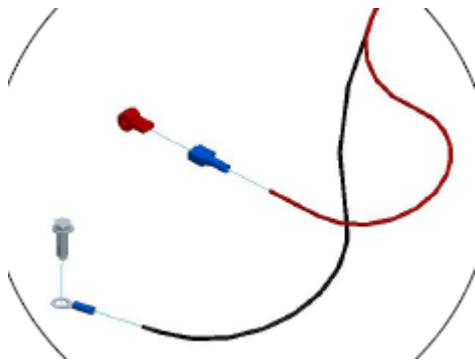
Procedure:

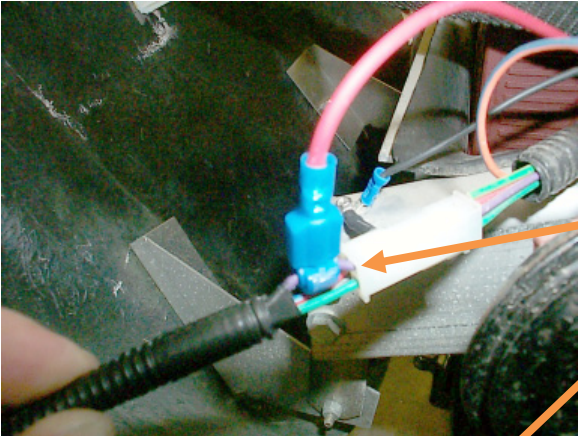
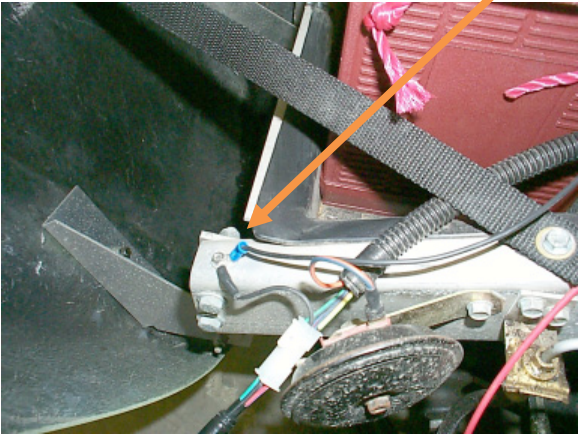
Steps:	Key Points:
<p>1. Determine Beacon Light mounting position and locate Beacon Light mounting area.</p>	<ul style="list-style-type: none"> ▪ 2 Pass placement: (e2, eS, eL, eLXD) <ul style="list-style-type: none"> ○ 22 inches. ○ Measure from the top windshield support. ▪ 4 Pass placement: (e4) <ul style="list-style-type: none"> ○ 15 inches. ○ Measure from the top windshield support. ▪ 6 Pass placement: (e6) <ul style="list-style-type: none"> ○ 19 inches. ○ Measure from the top windshield support. ▪ Mark with a pencil on the roof panel next to the Black Roof Trim. <p><u>NOTE:</u> MEASUREMENTS ARE APPROXIMATE AND MAY CHANGE SLIGHTLY PER VEHICLE. BE SURE THE MOUNTING POSITION IS EXACTLY WHERE YOU WANT IT.</p> <p><u>HINT:</u> THE BEACON SHOULD BE INSTALLED AT THE HIGHEST, FLATTEST POINT ON THE ROOF. WHEN FACING THE VEHICLE BROADSIDE THE BEACON SHOULD BE LEVEL AND WILL BE SLIGHTLY UNLEVEL FROM THE FRONT OR REAR VIEW, THIS IS NORMAL.</p>

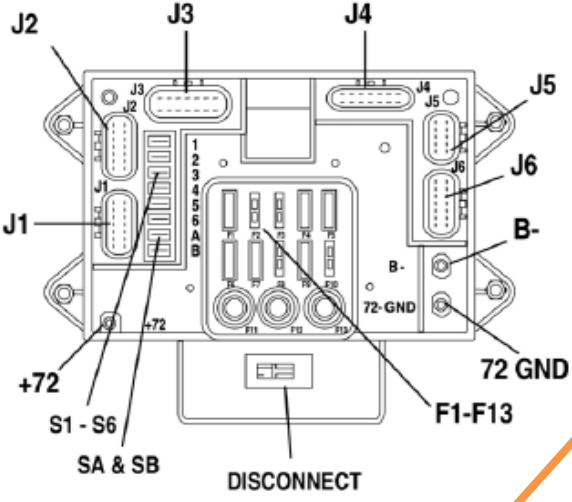
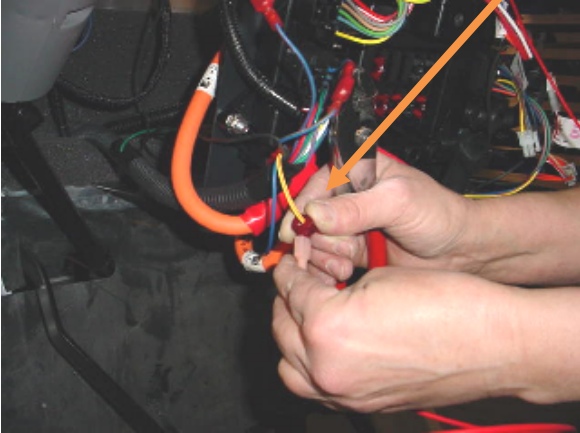
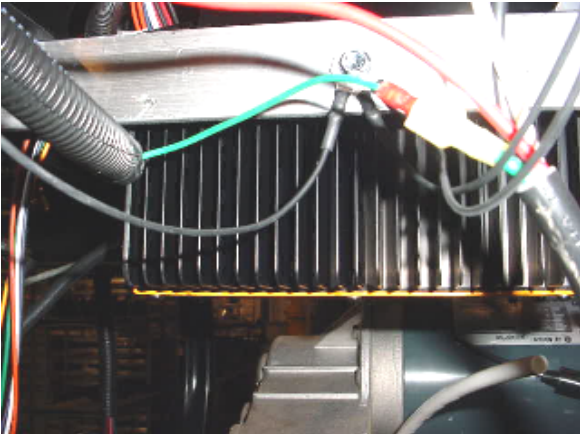
Steps:	Key Points:
<p data-bbox="237 237 532 268">2. Remove Roof trim.</p> 	<ul style="list-style-type: none"> <li data-bbox="837 237 1435 306">▪ Remove the Driver's side black Roof trim molding. <li data-bbox="837 310 1435 380">▪ Dispose and clean the surface area of the roof panel with Rubbing Alcohol. <li data-bbox="837 384 1435 415">▪ See picture to left (6-pass shown).
<p data-bbox="237 777 667 808">3. Mark Grommet hole location.</p>	<ul style="list-style-type: none"> <li data-bbox="837 777 1435 919">▪ Using the measurements from Step 1 mark the hole location along the roof rail. This will be the hole for the grommet for routing the wires. <li data-bbox="837 924 1435 1029">▪ Measure out from the roof rail about 5/8" and mark an 'X' where the two measurements intersect.
<p data-bbox="237 1071 699 1102">4. Drill a hole in the top of the rail.</p> 	<ul style="list-style-type: none"> <li data-bbox="837 1071 1273 1102">▪ Drill a 1/2 inch hole on the 'X'. <li data-bbox="837 1106 1435 1176">▪ Drill through the roof panel and the roof rail. <p data-bbox="837 1218 1435 1438">NOTE: CAREFUL NOT TO DRILL ALL THE WAY THROUGH THE ROOF RAIL. ONLY DRILL THROUGH THE TOP OF THE RAIL AND IN TO THE CENTER, NOT ALL THE WAY THROUGH TO THE BOTTOM.</p> <ul style="list-style-type: none"> <li data-bbox="837 1476 1117 1507">▪ See picture to left. <li data-bbox="837 1512 1435 1581">▪ Insert one Part # 0619-00359 grommet provided.

Steps:	Key Points:
<p data-bbox="240 237 748 268">5. Drill a hole in the bottom of the rail.</p> 	<ul style="list-style-type: none"> <li data-bbox="837 237 1360 268">▪ Remove the gray colored upper dash. <li data-bbox="837 275 1435 415">▪ Drill a ½ inch hole on the bottom of the Driver’s side roof rail. Hole location here is not specific, try to center it across the rail about 3-4” from the foot of the rail. <li data-bbox="837 422 1117 453">▪ See picture to left. <li data-bbox="837 459 1435 527">▪ Insert one Part # 0619-00359 grommet provided.
<p data-bbox="240 762 711 793">6. Route the wires through the roof.</p> 	<ul style="list-style-type: none"> <li data-bbox="837 762 1317 793">▪ Set the Beacon on top of the roof. <li data-bbox="837 800 1435 905">▪ Twist the two wires together on the ends about 6” and wrap them with tape so they don’t unravel. <li data-bbox="837 911 1435 978">▪ Insert the wires to the roof rail through the grommet on the roof. <li data-bbox="837 984 1435 1052">▪ Feed the wires through the roof rail to the bottom. <p data-bbox="837 1094 1435 1377"><u>HINT:</u> USE A HEAVIER PIECE OF SOLID CORE WIRE TO PULL THE WIRES THROUGH. CUT IT TO ABOUT 72”. FEED IT THROUGH FROM THE BOTTOM FIRST. TWIST IT AND TAPE IT WITH THE OTHER WIRES. THEN PULL THE WIRES THROUGH THE RAIL.</p>

Steps:	Key Points:
<p data-bbox="240 237 797 268">7. Determine Beacon light mount position.</p> 	<ul style="list-style-type: none"> <li data-bbox="837 237 1435 453">▪ From the measurement in Step 1, measure out from the roof rail edge 1-1/2” and mark a hole. This is the first measurement for the Beacon light. It is placed such that it clears the thickness of the new roof trim to be added in a later step. <li data-bbox="837 457 1435 520">▪ Measure out from the roof rail edge 4-7/8” and mark a hole. <li data-bbox="837 525 1435 636">▪ These will be the Beacon light mount hole locations. You may use the Beacon as a template. <li data-bbox="837 640 1435 703">▪ Using a 13/64” drill bit drill out the two (2) holes. <li data-bbox="837 707 1435 739">▪ See picture to left for reference.
<p data-bbox="240 783 602 814">8. Mount the Beacon Light.</p> 	<ul style="list-style-type: none"> <li data-bbox="837 783 1435 856">▪ Set the Beacon Light on to the roof panel to its mounting location. <p data-bbox="837 894 1435 999"><u>NOTE:</u> PULL THE WIRES TAUT SO THERE IS NO EXCESS STICKING OUT ON THE ROOF.</p> <ul style="list-style-type: none"> <li data-bbox="837 1041 1435 1146">▪ Place the provided Part # 0310-03141 Gasket between the Beacon and the roof panel. <li data-bbox="837 1150 1435 1255">▪ Using the hardware provided, from the top insert two (2) Part # 0523-00241 Black blind post screws. <p data-bbox="837 1297 1435 1402"><u>NOTE:</u> IT IS RECOMMENDED TO ADD THREAD SEALANT TO THE BLIND POST SCREWS.</p> <ul style="list-style-type: none"> <li data-bbox="837 1444 1435 1591">▪ Using the hardware provided, from the bottom insert two (2) Part # 0510-00342 O-rings and Part # 0521-00240 White blind post nuts. <li data-bbox="837 1596 1435 1659">▪ Secure the hardware installed using a large Flat screwdriver. Do not over tighten. <li data-bbox="837 1663 1435 1694">▪ See picture to left.

<p>Steps:</p> <p>9. Install the Roof trim.</p> 	<p>Key Points:</p> <ul style="list-style-type: none"> Using the new roof trim provided measure and cut it to length. <p>NOTE: IT IS RECOMMENDED TO APPLY A SMALL AMOUNT OF SILICONE TO THE GROMMET BEFORE APPLYING THE TRIM TO SEAL THE HOLE IN THE ROOF RAIL.</p> <ul style="list-style-type: none"> Remove the red backing strips from the adhesive strips on the backside of the trim. Apply the trim to the roof. Stretch it and press it in to place. See picture to left.
<p>10. Beacon mounted.</p> 	<ul style="list-style-type: none"> Mounting procedure completed. See picture to left. Continue below for wire termination and electrical connection instructions. <p>NOTE: ELECTRICAL CONNECTIONS WILL VARY BY MODEL YEAR VEHICLE. SEE SPECIFIC INSTRUCTIONS NOTED BELOW. GO TO THE SPECIFIC STEPS AND FOLLOW THE APPROPRIATE PROCEDURE(S).</p>
<p>11. Terminate the wires.</p> 	<ul style="list-style-type: none"> Crimp the spade terminal part # 0606-00904 provided to the Red wire. Crimp the ring terminal part # 0606-00406 provided to the Black wire See picture to left.
<p>For 2004-older Models go to Step 12.</p>	<p>For 2005-newer Models skip to Step 13.</p>

Steps:	Key Points:
<p data-bbox="240 237 756 304">12. Wire the Beacon light to the vehicle. (2004-PREVIOUS MODEL YEARS)</p>   <p>The top image shows a blue T-wire connector being attached to a purple/blue wire. The bottom image shows a black wire lead being connected to a ring terminal on the vehicle's frame. Two orange arrows point from the text in the Key Points section to these specific connection points in the images.</p>	<ul data-bbox="837 237 1433 779" style="list-style-type: none">▪ Open the Hood.▪ Locate the 4-wire Front/Headlight harness.▪ Locate the Purple/Blue wire.▪ Using a pliers, attach the provided Maroon colored T-wire connector to this wire.▪ Connect the Red wire lead with Male spade terminal from the Beacon to this point.▪ Connect the Black wire lead with ring terminal from the Beacon to the frame of the vehicle for 12-volt Chassis Ground using the provided self-drilling screw Part # 0523-00032.▪ See pictures to left.

Steps:	Key Points:
<p data-bbox="240 237 808 306">13. Wiring the Beacon Light to the vehicle. (2005-CURRENT MODEL YEARS)</p>  	<p data-bbox="836 199 987 233">Key Points:</p> <ul data-bbox="836 237 1437 856" style="list-style-type: none"> ▪ Remove the White colored Lower Dash. ▪ Locate the Front/Headlight Harness labeled J1 of the PSDM board, (lower left corner). ▪ Locate the Purple/Blue wire of the J1 connector. ▪ Using a pliers, attach the provided Maroon colored T-wire connector to this wire. ▪ OR, locate the small 2-wire yellow harness (2007-newer) in front of the PSDM and connect the provided T-wire connector on the yellow/red wire in the two position white Molex connector, (shown to left). ▪ Connect the red wire lead with Male spade terminal from the Beacon to this point. ▪ See pictures to left.
<p data-bbox="240 1350 748 1383">14. Connect the black wire to the frame.</p> 	<ul data-bbox="836 1350 1437 1570" style="list-style-type: none"> ▪ Connect the Black wire lead from the Beacon to the frame of the vehicle for 12-volt Chassis Ground. Three (3) wires is the maximum on any one-ground point. ▪ See picture to left (shown behind PSDM, along firewall).

Steps:	Key Points:
15. Wire termination and connection complete.	<ul style="list-style-type: none"> ▪ Beacon Light wiring completed. ▪ Proceed to next step.
16. Install Dashes.	<ul style="list-style-type: none"> ▪ Gray Upper & White Lower. ▪ Use hardware previously removed.
17. Verify Beacon Light operation.	<ul style="list-style-type: none"> ▪ Turn the MDS On. ▪ Turn the Key On. ▪ The Beacon Light has been wired to the Headlight circuit. ▪ Turn the Headlight switch On. ▪ Does the Beacon light flash? ▪ For further information or Technical Support call 866.764.0616
18. Installation complete.	<ul style="list-style-type: none"> ▪ Done.

Parts List:

0106-00714 ASSY, KIT - BEACON LIGHT, SVC



<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
1	0310-03141	GASKET, BEACON LAMP	1
2	0510-00342	O-RING, 3/32X7/32X13/32	2
3	0521-00240	NUT, BINDING POST #8-32 WHITE	2
4	0523-00032	SCREW, HEX - 1/4X.75 ZN WSH HD SD	1
5	0523-00241	SCREW, BINDING POST #8-32X.375 BLK	2
6	0606-00176	CONNECTOR, T - WIRE	1
7	0606-00406	TERMINAL, RING 14-16 GA - 1/4"	1
8	0606-00904	TERMINAL, SPADE - MALE INSULATED 14-16 GA 1/4"	1
9	0607-00902	LAMP, WARNING BEACON	1
10	0619-00359	BUSHING, OPEN/CLOSE - .50"	2
11	0417-00067	TRIM, ROOF MOLDING - BLK	6FT

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