

Installation Instructions & Use Recommendations

FMS Accessories – KA1 GS-P Installation Guide

These instructions must be read carefully and thoroughly **before** beginning work. FMS Solutions, LLC accepts no liability for damage caused by failure to observe the installation instructions or use recommendations. Do not proceed with the installation if you are not trained for authority installations of this type.

Installation of this accessory does not change the factory specified load limits for the motorcycle.

Before installation can begin, many parts must be removed from the stock motor. These include passenger seat and grab rail, saddlebag mounts, rear turn signals, front “Tupperware”, clear air deflectors, windshield air deflectors, tank side panels, etc.

You will need to fish the wiring from the license plate holder for turn signals and reassemble without them. A special holder has been made to mount them to the lid of the pizza box along with the blue ID light.

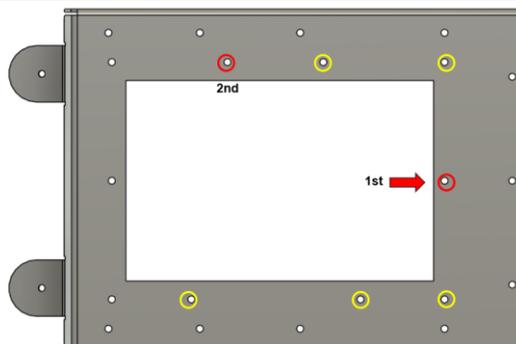


Prior to installing Alt-Rider protection bar system, weld the siren speaker bracket to LH lower protection bar. Sand-blast welded bracket and welds to blend into bar appearance, or powder coat as desired.

Attach the siren speaker to the bar using the three mounting bolts with the speaker. Position so that labels are at normal orientation so that water drains properly from the driver.

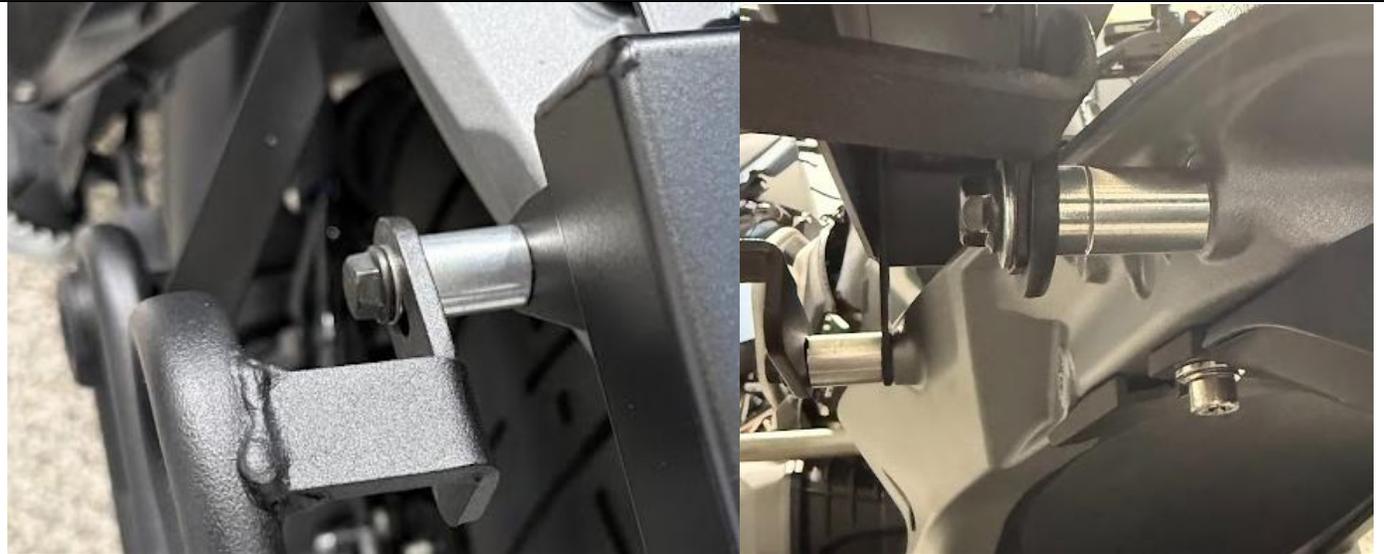
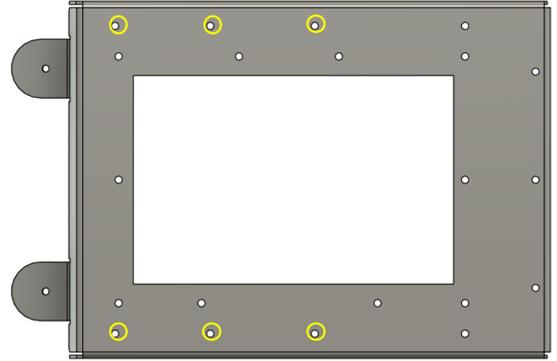


Prior to mounting the rear mounting plate, use it as a template to drill the holes in the bottom of the pizza box. Align the rear of the plate with the rear of the box, center it and drill the first center hole. Place a bolt through that hole, check your alignment, then drill the next hole. Place a bolt in that hole to ensure nothing moves, then drill the rest.



The rear mounting plate came with a package containing two mount supports (L & R). Those bolt to the plate using the M6 x 15 self-clinching studs and serrated flange nuts.

Assemble them first as it is difficult to reach the forward ones once in place. Install this assembly with the longer spacers at rear / shorter ones at front, together with the Jesse bag mounts. Hardened flange bolts are provided for these four connection points.



The power harness connects the main battery to the cassette / charging relay. Connect to the battery and route to the rear opening where this harness will plug into the cassette.



The relay charging cable connects to the starter relay on the upper terminal as shown at right. This provides a ground to the charging relay, until the starter motor is operated. During starting, this terminal is positive (positive against a positive), dropping out the charging relay (load shedding). Run this cable under the tank mount to the rear to connect with the accessory plug.



Run the main wiring harness along the left side of the motorcycle. In the front, you will need to drop down by the front protection bar support, run along the cross brace of the upper protection bar, then up again along the right side.

The left side has connections to the center windshield light (WS GN), LH duplex light (WS GN SW) and LH side light on the protection bar (WS GN SW).

Two cables coming off the harness are then routed near the tank. One goes up to the LH handlebar switches, the other goes down to the horn for the airhorn tap.



The harness will re-enter the upper space near the air snorkel for connection to the RH light and handlebar switch wires.



The photo at right shows the path of the main harness along the tank bottom, between the rubber mounts and back to the rear opening. The siren speaker connection is just forward of the visible protection bar mounting point, hidden by the body panel.



Remove the SOS button from the RH handlebar switch mounting bracket and relocate it to the top of the front brake reservoir as shown at right. Secure the plastic holder to the reservoir cover, then secure the SOS switch using the Plastite screw.



Mount the front side lights to the protection bar using the 1/8" pop-rivets provided. Mark the hole location on the bar, then drill without the mount in place. Rivet the mount, then install the Fenix Fusion light head using the hardware provided. Run the cable forward to connect to the harness plug with WS GN SW color cable.



Mount the center windshield light to the lower windshield mounting bolt holes using the longer bolts provided.

Route the cable down under the shield, then secure the cable stay using the provided expanding rivet in the grommet hole as shown at right. Finish routing the cable down and inside the panel, connecting to the WS GN wire connector.



Mount the LH supplementary handlebar switch bracket to the motorcycle using the spacers and longer M6 bolts provided. The left two holes are for PVP switches. The inner two holes are for TDL and Cruise Light switches.

Connect the switches as shown at right. If TDL's are not mounted, or using the emergency light flasher system to manipulate them, you can use the GN BL wire back at the 20-pin plug for some other function. The rocker switch makes the GN BL wire + or -.

The Cruise Light switch is illuminated when the cruise lights are activated. Note that since the center windshield light is the CA Title 13 steady-burn light, both duplex and front side lights illuminate for Cruise Light.



Connect the horn tap between the horn and the horn harness plug. This tap grabs the +12v horn signal to activate the siren air horn function. Remember that air horn tones can be set at the siren amplifier from a variety of tones available.



Attach the pre-assembled left and right duplex lights to the mounting points previously used for the clear air deflectors. Route the cable around the inside corner and into the opening in the side panel.

RH Duplex WS VI plug.
LH Duplex WS GN SW plug.



The RH supplementary handlebar switch bracket has a lot going on. There is the Voltmeter, Red & Blue indicator lights, Siren and EL activation buttons.

Carefully route the wires along the front brake hose / BMW switch cable, flowing around the corner and out to the outer exposed area. Spend some time here carefully laying these wires in place, ensuring that full lock-to-lock movement of the handlebar will not bind or abraid any cables or hoses. Secure the cable with multiple light weight cable ties (20 lb. max) just snugly tightened.

Operation: Siren and Emergency Lights operate as on the RT-P model. Press activates function. Additional presses toggle through options, press & hold turns OFF.



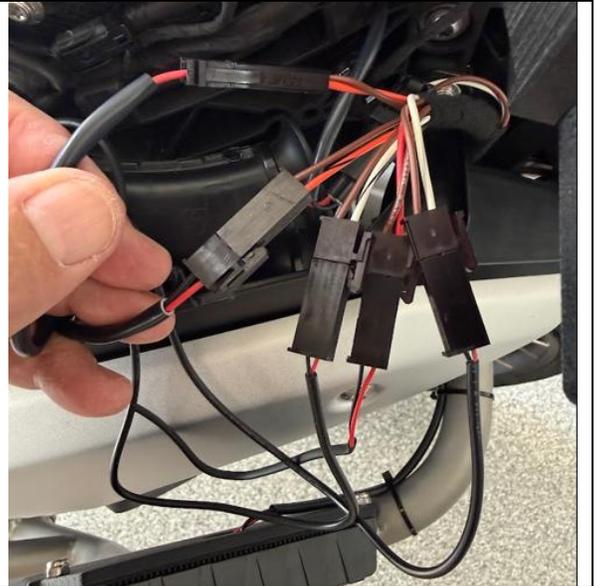
The wire connections look like a mess, but they nest down nicely once connected. Don't button up the body panels until you have had a chance to test every button and indicator (in case some are swapped).



Siren (OR) and EL (OR SW) push buttons



Red Front (WS SW) indicator
Blue Rear (WS GR) indicator
Voltmeter (RT GE)



Connect the turn signal extender cable to the TS plugs near the battery left side and run them up to cassette entrance hole. These are barely long enough to reach the opening.



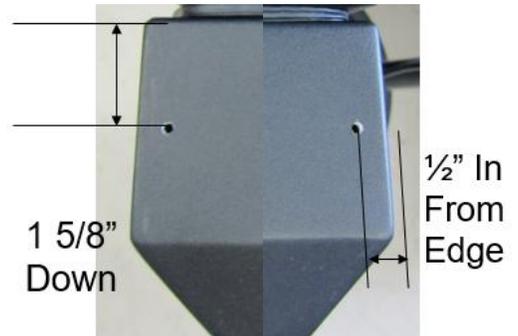
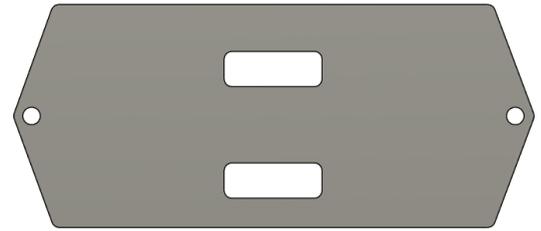
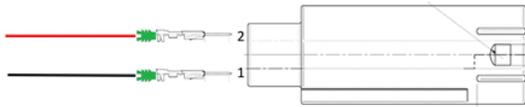
The second step in prepping the pizza box is to place the cassette inside, slide a couple of bolts through the mating holes to align it and mark the opening to be cut in the floor to bring cable up into the box. Finish the cut edges to ensure they are not sharp and won't abraid cables.



Now is a good time to attach the duplex rear and single side lights to the pizza box. Spacers are now provided to assist with wire transition space as the Feneix lights have an exit from their housing that can otherwise chafe the wires if not spaced.

If you do not have the tool to extract the pins from the housings on the lights, simply trim the spacer and bore holes large enough for the plugs to enter the pizza box.

Note: When installing the Feneix Fusion lights, you will need to reinstall the plug from the light to install it through the small holes in the Pizza Box. Ensure that the plugs are reconnected with the correct polarity! Otherwise, you can damage a light by connecting it with reverse polarity!

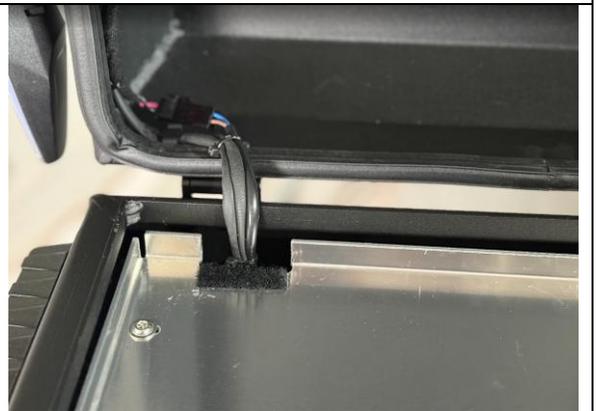


Mount the turn signals into the new rear TS mount with blue ID light. Use the same bolt for the turn signals.

Utilizing the gasket as a template, mark and bore the three mounting holes on the center of the pizza box lid. Bore a hole oriented near the hinge side to exit the TS cables and ID light cable. Note: We have very little extra turn signal cable length.



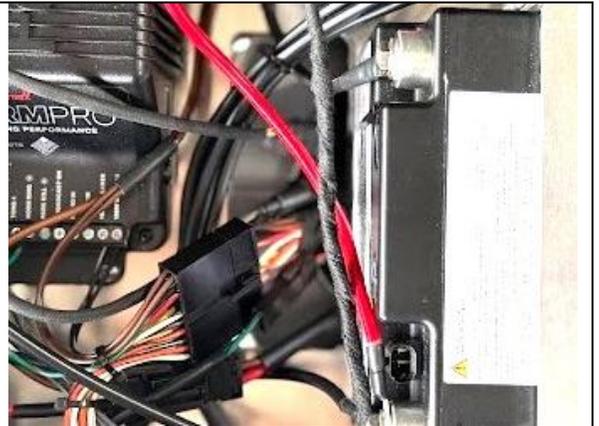
Route the three cable along the inside of the pizza box lid. Adhesive stays are provided to clip the wires in place. The inner cover of the pizza box is notched to enable removal of the inner cover without disturbing the wire connections. Padding is provided around the notch to keep wires from abraiding on the edges.



There is a power socket to charge the Li-ion battery as well as a gun lock release button. Determine the agency desired location for the gun lock release and drill that hole prior to installing cassette.

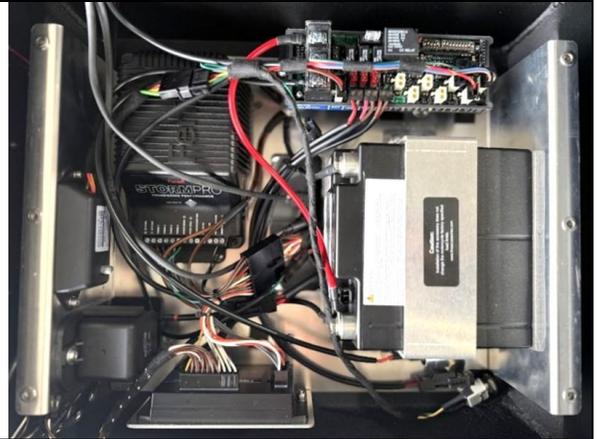
Connect all pizza box emergency lights prior to bolting the cassette into position.

Set the cassette into place, but before bolting down, ensure you have all TS, charging relay, battery power and main harness connectors within reach.



The cassette is mounted with two faster types: M6 x 15 self-clinching studs and M6 x 16 flanged Torx bolts. There are two locations where there is insufficient room for the flanged Torx bolts, which is the right side of the siren amplifier and against the battery hold-down high side. Use the self-clinching studs there. The other locations you can use the flanged Torx bolts. Secure the cassette to the structure tightening the serrated flanged nuts on the underside.

Install the Li-ion battery carefully tightening the connections. Secure the hold-down strap.



The rifle mounting bracket attaches to the rear frame structure at the two rear bolt holes, using the M6 x 16 flanged Torx bolts with flanged Nylock nuts.

The lower mounting hole has a vertical slot to mate with the horizontal slot on the Jesse bag mount. An aluminum spacer is placed between the Jesse bag mount and the rifle mounting bracket.

The mounting bracket is indexed to fit the FMS Accessories rifle mount. A gun lock timer and release button are all pre-wired to connect the rifle gun lock cable.



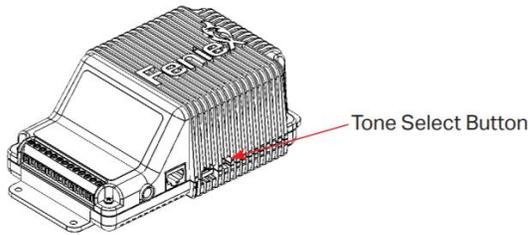
The brace between the saddlebag mounts spans the inside faces. Note that an internal tooth locking washer should be placed between the brace and the RH mount. This should keep the brace from rotating. Torque both side mounting bolts firmly.



Mounting for Stalker front and rear radar antennas are now available for the GS-P.



Note: Siren tone selection button is on the side of the amplifier as illustrated at right. Select each tone separately from the push buttons and then code the tone you want to play at each step in the tone selection process.



SIREN TONES

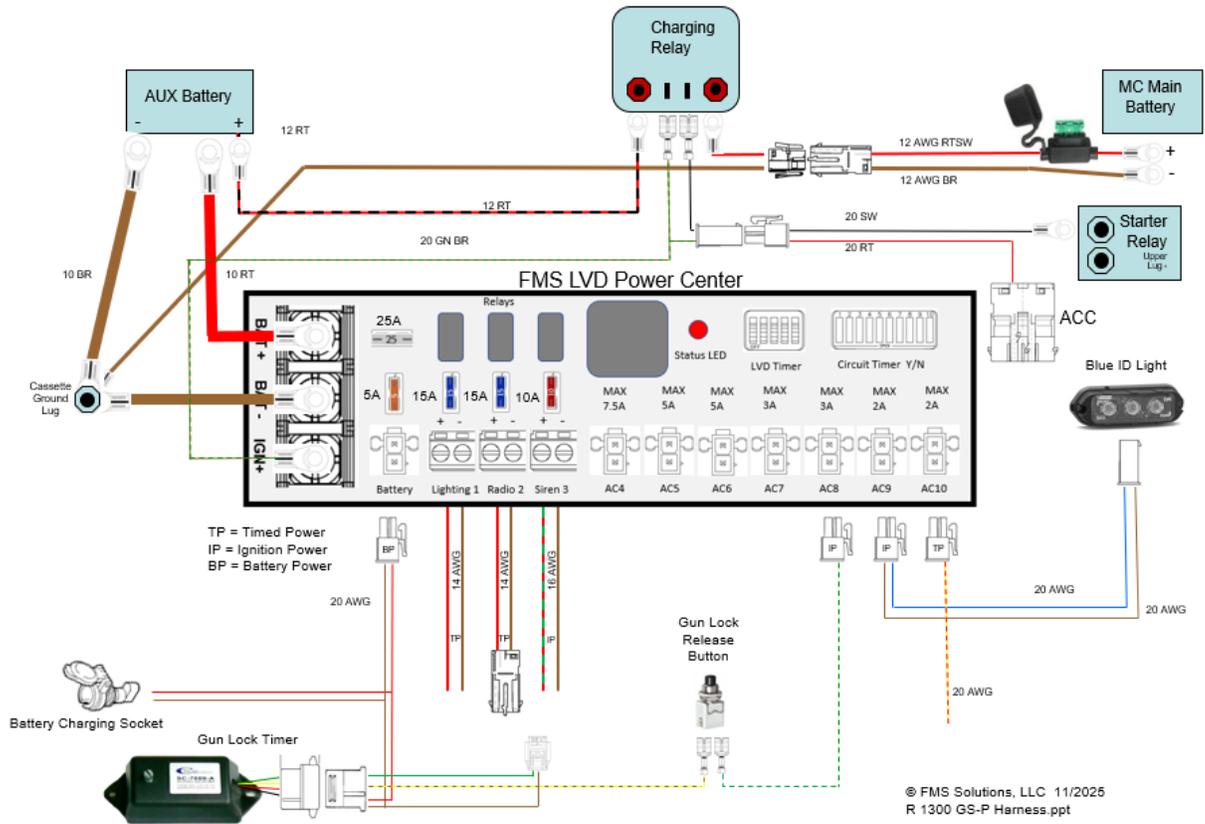
| | |
|-------------------|-----------------------------|
| 1) Wail | 13) Ecto Siren |
| 2) Yelp | 14) Bad Boys |
| 3) Fast Yelp | 15) Move Out of the Way |
| 4) Phaser | 16) Pull Over |
| 5) Mechanical | 17) Step Out of the Vehicle |
| 6) Manual Wail | 18) Step Out w/Hands Up |
| 7) Hi/Lo | 19) Remain in your Vehicle |
| 8) P-Call [Slow] | 20) Remain... Windows Down |
| 9) P-Call [Fast] | 21) Test Tone |
| 10) Horn & Phaser | 22) Italian Police* |
| 11) Horn & Yelp | 23) Italian Ambulance* |
| 12) Phaser & Yelp | *Storm Pro 100w Only |

The FMS Flash Control Unit controls emergency lights as well as sending signals to the siren amplifier. Flash patterns can be selected using the blue button.

- Dip #1 ON – CA Mode
- Dip #2 ON – Alt Activation Sequence
- Dip #3 – Not Used
- Dip #4 ON – No Timer Function



R 1300 GS-P Harness MY 2025 forward Gen 4 Fuse / Power Management



Main Fuse for Outputs #4-#10 25A MAX

Battery Fuse

Battery +12v

Battery Ground

VS Ignition Trigger



Timer Dip Switch Operation

| | | | | | |
|-------|-------|-------|----|-------|----|
| 1-15m | 2-30m | 3-60m | 4 | 5-11v | ON |
| 0m | 0m | 0m | 9v | OFF | |

To Activate Timed Output – Select ON

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | ON |
| | | | | | | | | | | OFF |

FMS LVD Power Center
FMSA-EL-LVDPC

| | | | | | | | | | | |
|-------|--------|-------|-------|----|----|----|----|----|----|----|
| BAT | Lights | Radio | Siren | 7A | 5A | 5A | 3A | 3A | 2A | 2A |
| + 1 - | + 2 - | + 3 - | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |

https://fmsaccessories.com/ProductInstructionsFile/FMS_Instructions-6_%20PMFMS%20Instructions%20-%20FMS%20LVD%20Power%20Center.pdf



RT SW
Lighting on Power Center

R 1300 GS-P Harness MY 2025 Gen 4 forward LED Emergency Lights FMS EL Flasher Module

Dip Switches

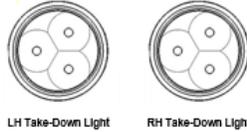
- 1 On=CA Mode (LF Steady Burn / No Hyper-Yelp)
- 2 Alternate Light Activation Sequence
- 3 Not Yet Assigned
- 4 On= No 30 Minute Timer From IGN (#5)

Pins 1-10 = Ground



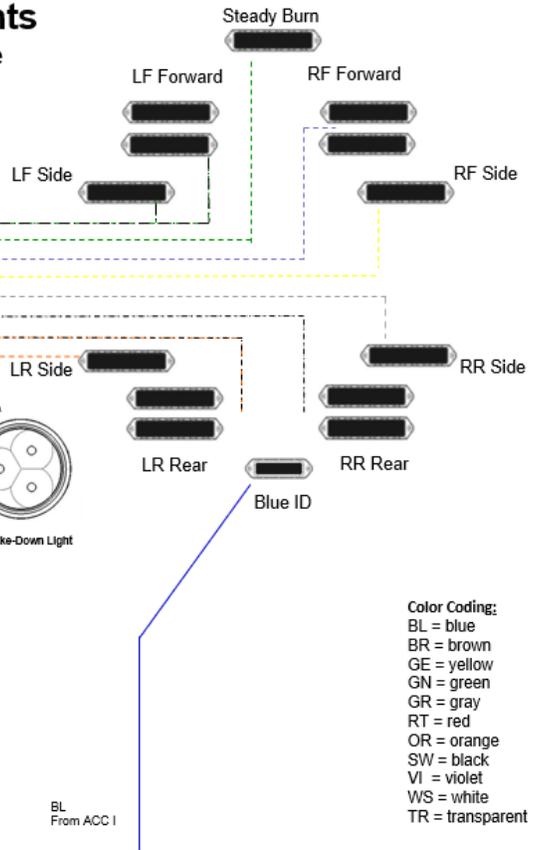
- 14 WS GN SW
- 12 WS GN
- 11 WS VI
- 13 WS GE
- 15 WS GR
- 17 WS GR SW
- 18 WS OR SW
- 16 WS OR
- 19 GE SW
- 20 GE WS

- 12 WS GR --- R Indicator
- 8 WS SW --- F Indicator
- 2 GN BL --- TDL Button



- 7 BR GR GE --- Cruise Light Button
- 1 OR SW --- EL Button
- 3 OR --- Siren Button
- 11 GR --- Siren Wail
- 10 GR SW --- Siren Yelp
- 9 GR GE --- Siren Hyper-Yelp

- 4 GR SW GE --- Brake Light Input (not used)
- 5 GN VI --- Ignition Power (not used)
- 6 BR --- Ground (not used)



- Color Coding:**
 BL = blue
 BR = brown
 GE = yellow
 GN = green
 GR = gray
 RT = red
 OR = orange
 SW = black
 VI = violet
 WS = white
 TR = transparent

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R 1300 GS-P Harness.ppt

Feedback: Thank you for your purchase and we welcome your feedback as we too want to make every accessory exceed your expectations. Report any comments, suggestions, problems or concerns to FMS Solutions, LLC at info@fmsaccessories.com.

FMS Solutions, LLC Limited Warranty

FMS Solutions, LLC warrants to the first retail purchaser of new FMS Accessory products, to be free from defects in materials or workmanship, for a period of three (3) years from the original date of purchase as noted on the FMS Solutions, LLC invoice or original dealer invoice, except for paint and powder-coated finishes, which are warranted for the first 12 months only. LED lights from Fenix, Inc., Code 3, Inc. and Littlite are covered for 5 years by their manufacturer's respective warranties – processed through FMS Solutions, LLC.

This warranty extends only to the FMS accessory and does not include: damage caused by accidents or abuse; incorrect installation; labor to diagnose, remove, repair or replace; any consequential damage or loss of use. Any FMS Accessory suspected of being defective should be returned to FMS Solutions, LLC along with a copy of proof of purchase and warranty request form available on the FMS website. FMS Solutions, LLC will determine if the FMS accessory has a warrantable defect, and if so, will repair or replace the item and return it to the sender without charge. The decision to repair or replace said item is solely the prerogative of FMS Solutions, LLC.

Note: Police motors can operate in a very rough environment since police motors are a "tool". They can be dropped, knocked-over, etc. without concern as the officer has a job to do and determines what is necessary at any given moment. Warranty is for defects in materials or workmanship. Therefore, the ability of an item to become broken or damaged does not mean it is warranty ... it just means it is broken

or damaged and in need of repair or replacement. No manufacturer warrants their products to be indestructible. Any questions should be directed to info@fmsaccessories.com .