

Adding Fog Lights to Russian Motorcycles

- Looking for Something that Would Increase Conspicuity (visibility or noticeability) to Other Drivers
- •Chose to Mount Two Fog Lights Along-Side Headlight
- Chose Lowest Power-Consumption (35-Watt each) Lights –Easy on Alternator/Battery.
- Need to Add a Relay in the Circuit to Turn Lights On & Off
 - -Allows the Current to Pass Thru the Relay Contacts and Not Thru the Ignition Switch
- •15-Amp Common Auto Fuse Added in Headlight Cavity
 - -Where It Should Be, and Not Under the Gas-Tank
- Control for Fog-Light Relay Coil Receives Voltage from Previously Unused Blue Connector in Headlight Cavity
 - -Folks Keep Asking about That Unused Connector
 - -Used in Europe, Not in U.S.
 - -Because the Relay Control Voltage is Derived from This European Daylight Switch Connector, Fog Lights Go Out When Switch to Hi-Beam

KC Hilites 487 50 Series 5" Black Amber Fog Light System - Set of 2

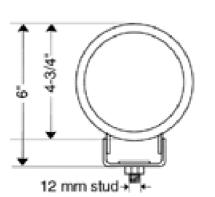
- Designed to provide clear and brilliant lighting
- Features a 35-Watt rating
- Manufactured from highly durable material Backed by a 23 year warranty

- Price: \$123 & this item ships for FREE with Super Saver Shipping KC 50 Series 5" Round Black-Chrome AMBER Fog Light Kit. KC 50 Series provide powerful light output in a compact 5" round housing. Two axis mounting provides for quick and easy aiming. Ideal for use on compact trucks & SUVs where space limitations are a consideration.

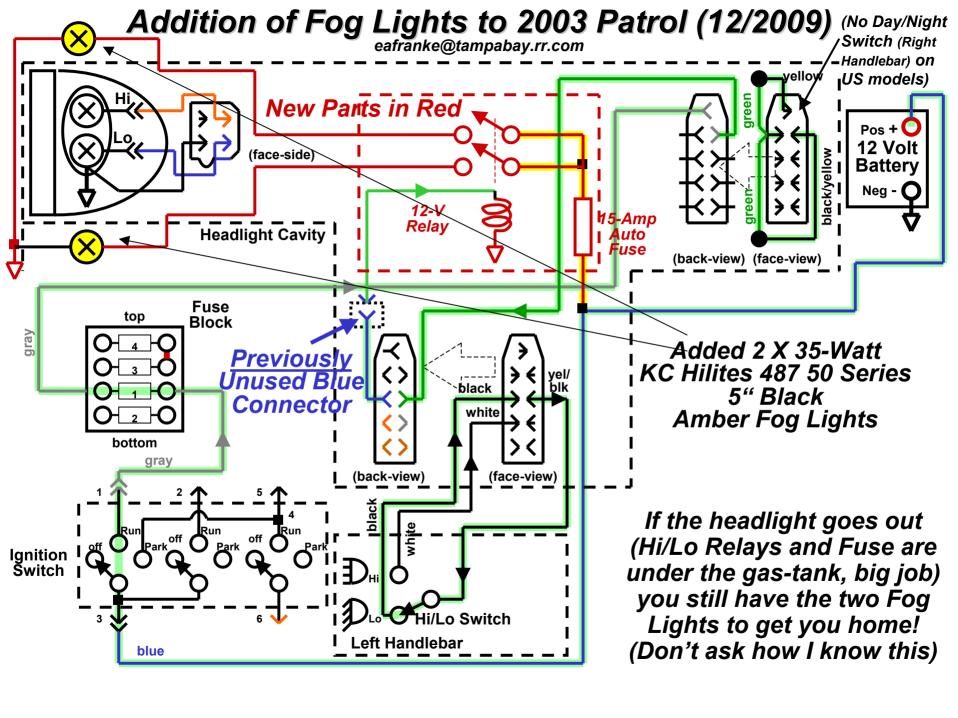
- Bulb Type: 12-Volt / 35-Watt / 7,000 Candlepower (Wagner 4414A) Features: Black-Chrome housing with the multi-position bracket. Kit Includes: Two lamps with protective light covers, pre-terminated relay wiring harness and easy to follow instructions.
- Dimensions: 6 " x 4 3/4" x 3 5/8"

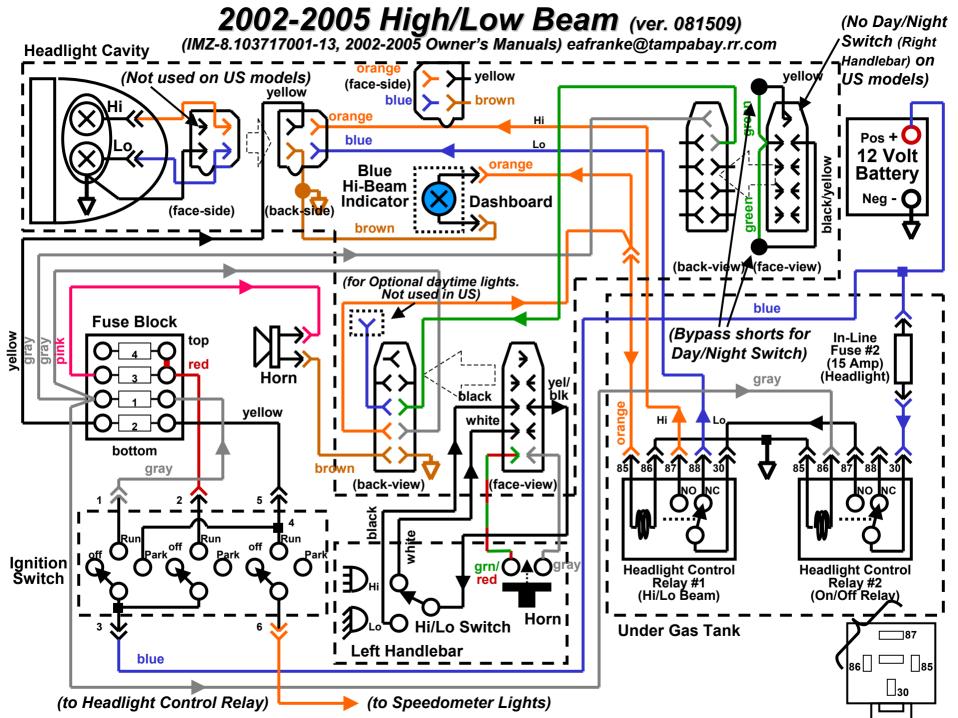


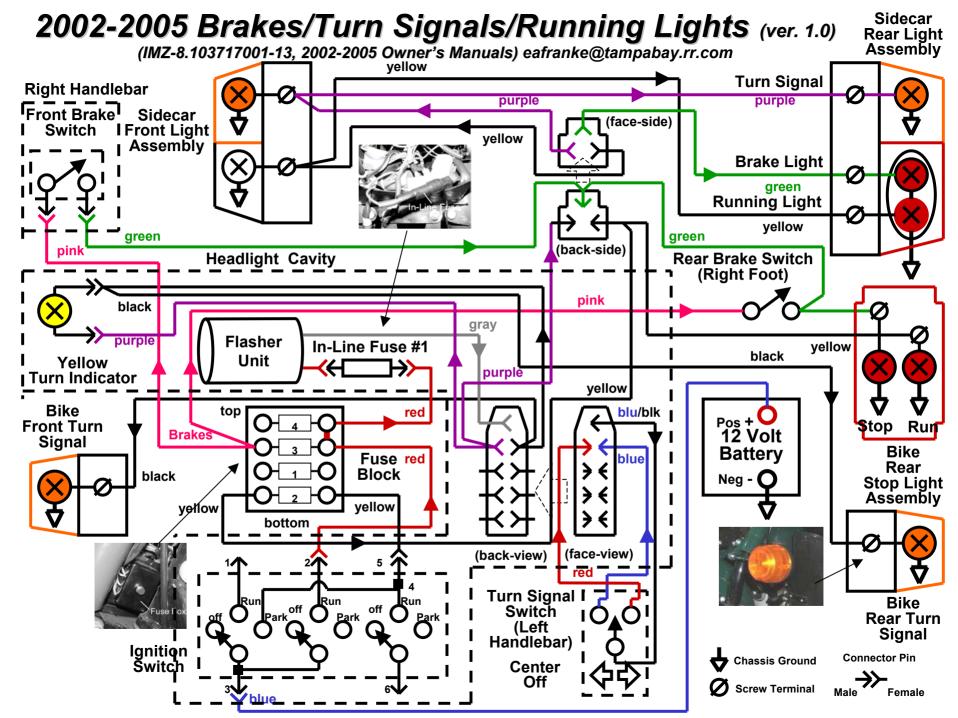








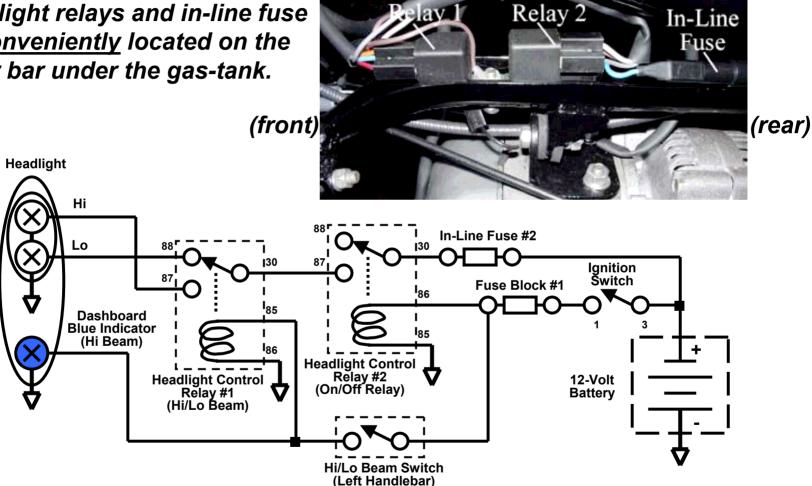




2002-2005 Simplified Hi/Lo Beam Circuit

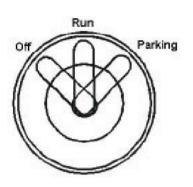
(ver. 081509) eafranke@tampabay.rr.com

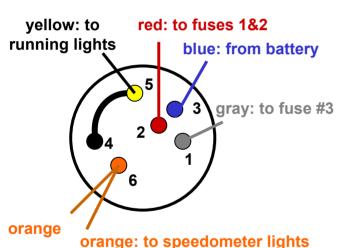
The headlight relays and in-line fuse are inconveniently located on the center bar under the gas-tank.



The relays, controlled by the ignition switch and the Hi/Lo beam switch, are used to make high-current connections. (Thus the ignition switch and Hi/Lo handlebar switch last longer because their contacts only handle relay coil current.)

2002-2007 Ignition Switch





Back View of Ignition Switch

Wire Colors are shown, because switch numbers are very hard to read!

Ignition Switch	Headlight	Brake Light	Turn Signals	Running Lights
Off	Non-Op	Non-Op	Non-Op	Non-Op
Run	Operate	Operate	Operate	Operate
Park	Non-Op	Non-Op	Non-Op	Operate

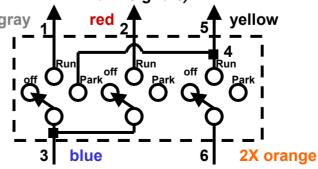
Non-Op = non-Operational, Operate = Operational

Off: All electrical systems are off.

Run: Voltage is applied to all electrical systems. Parking: Voltage is applied to running lights only.

Switch Pin #	1	2	3	4	5	6
Wire Color	grey	red	blue	none	yellow	orange
Off	0 V.	0 V.	12 V.	0 V.	0 V.	0 V.
Run	12 V.	12 V.				
Park	0 V.	0 V.	12 V.	12 V.	12 V.	0 V.

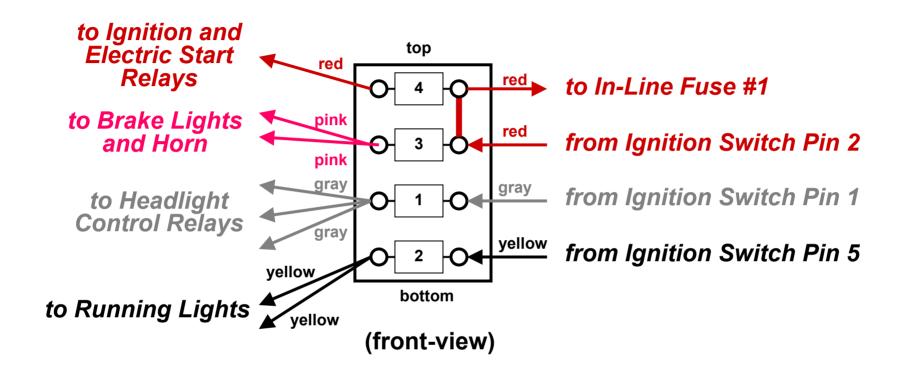
(to Fuse #3&4
(to Fuse #1 Ignition, Electric
Headlight Start Relays, (to Fuse #4
Control Relays) Brakes, Horn and Running Lights)
Turn Signals)



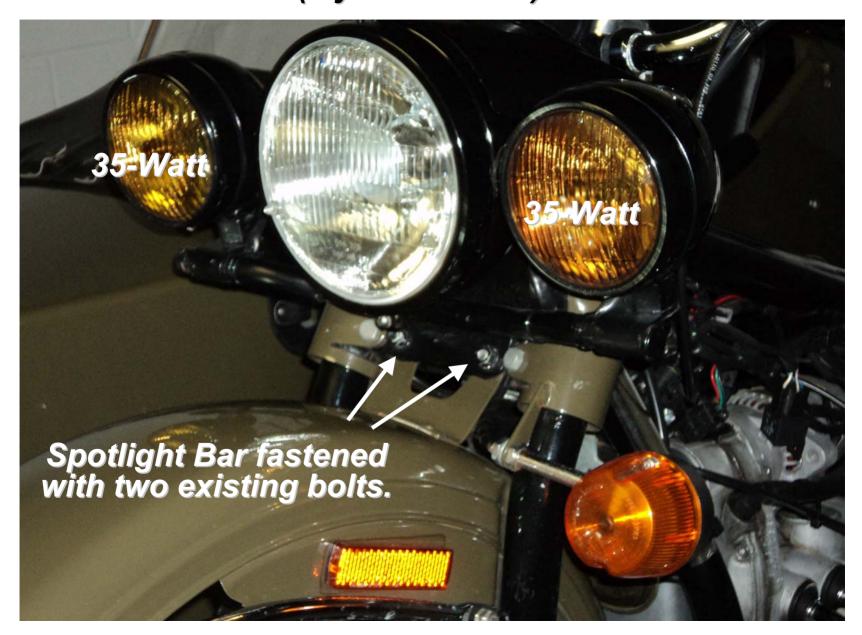
(from +12-Volt Battery and Alternator)

(to speedometer lights)

2002-2005 Fuse Block



Twin KC Hilite Fog Lights Mounted on a Black Spotlight Bar (My 2003 Patrol)



Black Spotlight Bar

- Black Powder-Coated Spotlight Bar (P/N 900160 A)
- · High-Quality Mandrel-Bent Tubing
- Furnished with Wire Openings, Black End-Caps and Clip-Mounts for Lights
- Mounts Directly underneath Motorcycle Headlight to Existing Studs and Nuts
- Bar is Exceptionally Strong and Stable to Eliminate Light Flicker
- Raceway Services
 - -2700 19th St. SE Unit #3
 - -Salem, OREGON 97302
 - -Telephone: 503-588-7227 Cell: 503-871-0197
 - -racewayservices@gmail.com
- ·\$80

