

November 20, 2003

**Re: BMW Police Motors Information - 2004**

For this year, BMW offers two Police Motors for sale in the US – the R 1150 RT-P and the F 650 GS-P. The R 1150 GS-P has been discontinued. The following information will give you additional insight into these two fantastic models.

The R 1150 RT-P began production in November 2002. The 2004 model will have the following changes / improvements:

- New two-spark cylinder head design for improved emissions and performance.
- Six speed gearbox with lower 1<sup>st</sup> gear and sport 6<sup>th</sup> gear. This new “Enduro” gearbox will begin productions as a running change beginning 09/03 production.
- Partial-integral IABS for police.
- Special reinforced front tire and police front shock absorber.
- New sealed batteries for both main motor and police equipment locations.
- Jump-start lugs to main battery beginning with 09/03 production.
- New police relay package will relay functions of brake light, tail light, turn signals, and provide two switched power and one constant power outlet for accessories.
- Radar vehicle speed signal outlet, combined with separate fused power and ground connection for moving radar integration.
- New optional processor-controlled LED emergency light flashing system, with photo eye control for specific light intensity reduction at night.
- Optional LED brake/tail light integrated into rear emergency light plate.

The BMW R 1150 RT-P comes standard with the following items:

1. The R 1150 RT-P models is built with a second battery for police circuits, thermostatically-controlled oil cooler fan, heated grips, adjustable tall windshield, front & rear protection bars, saddlebags, solo “comfort” seat w/radio box, pre-wired police accessory circuits in radio box, etc. as standard equipment from the factory in Berlin. Additional items added in the US specific to the agency equipment are noted below.
2. **Emergency Lighting:** The two most common types of lighting are LED and strobe. LED is the new “kid on the block” as far as lighting goes and BMW offers the most advanced LED lighting system in the market. The traditional lighting previously used by most agencies is strobe lighting. Strobe lights have been around for years, look like flash bulbs popping, and generally are the least expensive choice. **LED lights:** Our most popular new technology light system is the Code 3 LED system, which is available at a very reasonable price.

- We now also have the rear LED's available in a duplex light (double stack), which is awesome in bright sunlight regions such as CA, AZ, FL, etc. Duplex rear light prices are noted on the Motor Profile form. **Processor controlled:** A new feature from Code 3 and BMW is an LED light controller module, which acts as the brain to synchronize the light flashing of all mounted LED lights. Additionally, the control module contains the ability to shut-off a bank of lights at night as determined by a photo-eye. This is used on the rear duplex lights, to shutdown the lower bank of lights at night to reduce glare. A special Whelen Series 500 LED in brake / tail light version is available in surface mount on the rear emergency light plate, or to supplement a pole strobe, or in combination with strobe or LED lighting. The LED brake / tail light provides additional illumination as a normal tail light and makes 4 quick pulses, then on solid bright when brakes are applied. **Front and rear strobe lights:** Two front and two rear facing strobe lights (specify color), combined with a 4x75W amplifier are included in the basic price. We offer the choice of GS/H2 (rectangular) or PAR36 (round) front lights, as well as series 500 (5" x 2") or series 7 (7" x 3") rear lights. The customer may substitute a rear telescoping pole strobe light for the two rear facing lights. When six lights are desired, we will also substitute the 6x60W amplifier. A 6x90W amplifier (most powerful / popular version offered) includes a dimmer switch for use in fog. **Side strobes are our most popular option:** This consists of two side facing (one each side) MC101SG Whelen strobe lights, mounted just behind the front protection bars, which offer great visibility. You can also mount the round PAR-36 lights on the side rather than the MC101SG for the same price. Additionally, other side lighting options are available such as Series 500 lights with polished or black brackets, side LED lights, etc. The pricing of these combinations will vary depending upon model, mount type and color.
3. **A 100W BMW/Code 3 electronic siren** system is standard equipment, including a Code 3 100W speaker (narrower than the FS Dynamax, thereby reducing possibility of damage during falls). The siren features wail, yelp and hyper-yelp tones (hyper-yelp is deactivated for CA customers) plus air horn, radio rebroadcast and public address. The siren comes with a radio-rebroadcast push button (replaces rocker switch) and a single push button PTT-type switch that controls the 3 main tones (push to start, push to change / scroll, push & hold to stop). A great feature is that the siren amplifier mounts under the floor of the radio box – out of sight!
  4. We offer optional accommodation packages for PVP and SetCom communications (helmet to radio) with interface for public address connection to the siren. We also offer double and triple PTT switches (the first one always used for siren function) that can be used to connect to radios or other functions. All PTT switch mounts are now sold as separate parts, to enable agencies to purchase a holder with 3 holes (for example) but only one switch, so they can mount some other switches for their equipment. One PTT switch is required to operate the siren system.
  5. Side turn signals, mounted beside the radio box (as used by CHP), are an option which includes the new relay control. The R 1150 RT-P comes standard with two turn signal flasher systems – the normal 4-way flasher and rear-only flashers. The CHP

type side turn signals now obtain their power from the police relay control, as the load from 6 bulbs will burn out the TS flasher. LED side turn signals are no longer recommended.

6. A radio control head mount is a NC option. A left and right radio speaker is already in the fairing for connection to police mobile radio and radar Doppler warning, so it only needs a wire to connect it. It is important to ask where the mobile radio connects to the fairing speaker, either at the control head, or at the receiver in the radio box. This will determine which siren harness and speaker wire is installed (rough-in).
7. Assorted options are retailer installed and can also be sold separately after initial order, such as moving radar mounts, radar & laser gun mounts, notepad holders, shotgun mounts, flashlight & baton holders, etc.
8. Saddlebags must be selected at time of order. White is no longer offered. If an agency specs white, the retailer must arrange to have the lids painted. We don't recommend white, as they get marked-up too easily. There is no price difference between city cases and touring cases, but the touring cases are not protected by the protection bars and are very wide - not so good for close traffic, and they don't have a hard divider standard (it is an option). We always recommend black city cases.
9. A new option for the R 1150 RT-P is called a power management module. This device was developed as we have found many agencies that (for cost reasons) must run car version radios rather than motorcycle version radios. These car version radios have a much greater parasitic load on the battery when not in use, which can quickly flatten the battery. The new Power Management Module is a timing device that completes an existing circuit when the ignition is turned "on", keeping the circuit closed, but will open the circuit one hour after the ignition is turned "off". This will eliminate these high-draw devices from draining the battery when parked.
10. Police Motors are stocked in black/white color code #753 and limited quantities in white code #751. Special colors can be ordered from the factory (anything in the BMW pallet of colors) with a 3-4 months lead-time. We must confirm capacity for production of any special color. Local custom painting is also available – contact your local BMW retailer for a current price quotation. The white painted side panel used by CHP is painted locally. All orders must be preceded by an ABS radio release. We cannot process an order without prior approval of the radio frequency for ABS.