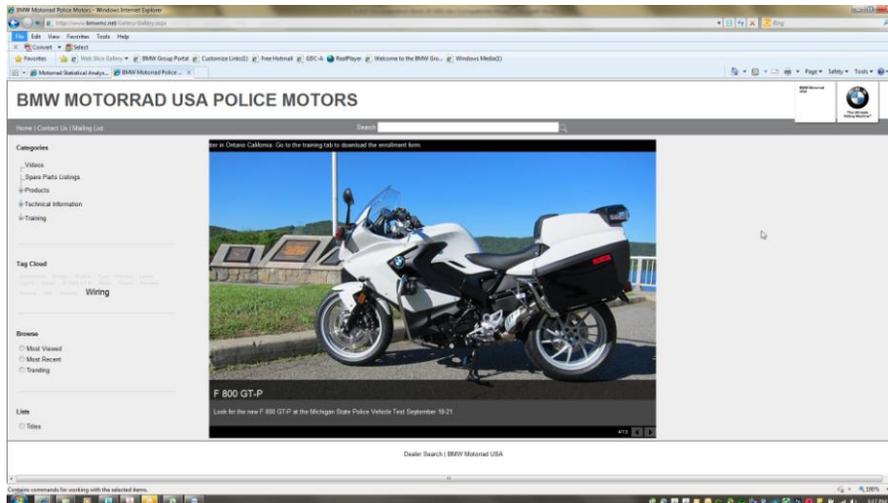




# R 1200 RT-P Supplementary Instructions



Visit the BMW Police Motors Website to see the latest information at [www.bmwmc.net](http://www.bmwmc.net).



Visit us on Facebook

[www.facebook.com/bmwmotorcycles](http://www.facebook.com/bmwmotorcycles)

Visit the BMW Motorrad Civil Website at

[www.bmwmotorcycles.com](http://www.bmwmotorcycles.com)

© 2013 BMW Motorrad USA, a division of BMW of North America, LLC.

The BMW trademarks and logo are registered. All rights reserved.

Revision 09/11/2013



**Model Year 2011 - 2014**

**Place in motorcycle document package along with Rider's Manual.**

## Introduction

Congratulations on your agency's decision to purchase BMW police motors. BMW is dedicated to providing you the most advanced police motor available, combining comfort, safety, the best warranty, low maintenance costs, function and form that meet the needs of your agency.

Part of our dedication is providing information to all agencies on an ongoing basis, to help keep you aware of the latest changes, improvements, service measures, etc. BMW has created a **Police Motors Website** at [www.bmwmc.net](http://www.bmwmc.net) for use by BMW motor riders and technicians, which contains repair information, installation instructions, wiring diagrams, service bulletins, parts listings, warranty and training information, as well as press releases, information on the latest options, new production announcements, etc. We encourage all agencies to register your email address with us so that we can provide you timely notification regarding new bulletins and other announcements.

We are also interested in your feedback. Please don't hesitate to contact us regarding any suggestions for new options, changes or improvements you feel would make your BMW police motor even better. We welcome your correspondence sent to [frank.stevens@bmwna.com](mailto:frank.stevens@bmwna.com).

Thank you for choosing BMW police motors!

Very truly yours,  
BMW Motorrad USA



Frank Stevens  
Sales Development Manager

## Warning Labels:

Each BMW Police Motor must be equipped with two warning labels attached to the fuel tank rearward of the filler cap that state:

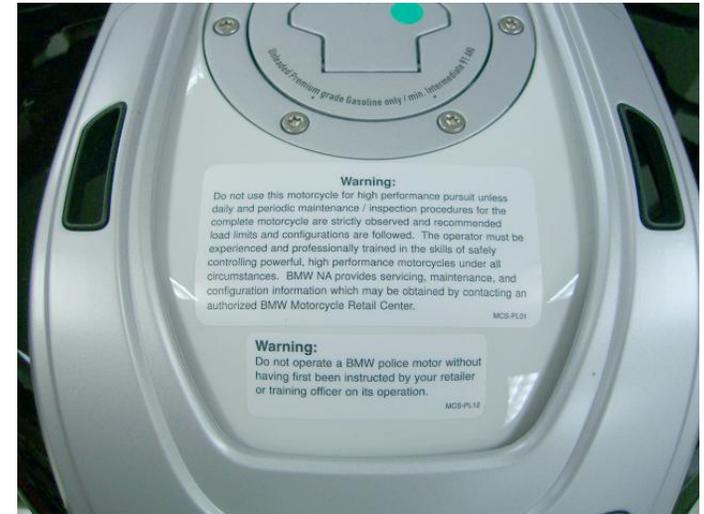
**Warning:**  
Do not use this motorcycle for high performance pursuit unless daily and periodic maintenance / inspection procedures for the complete motorcycle are strictly observed and recommended load limits and configurations are followed. The operator must be experienced and professionally trained in the skills of safely controlling powerful, high performance motorcycles under all circumstances. BMW NA provides servicing, maintenance, and configuration information which may be obtained by contacting an authorized BMW Motorcycle Retail Center.

The operator must be experienced and professionally trained in the skills of safely controlling powerful, high performance motorcycles under all circumstances. BMW NA provides servicing, maintenance, and configuration information which may be obtained by contacting an authorized BMW Motorcycle Retail Center.  
MCS-PL01

**Warning:**  
Do not operate a BMW police motor without having first been instructed by your retailer or training officer on its operation.  
MCS-PL12

## Engine Oil:

Selecting the proper motor oil for strenuous fleet operations is essential to maintain the long-life and low oil consumption expected from a BMW engine. BMW Motorrad HP (High Performance) engine oil is premium quality synthetic four stroke motorcycle oil designed to ensure maximum power and performance, even under the most demanding fleet riding conditions. Always use BMW Motorrad HP synthetic engine oil from the 600 mile inspection forward, to fully protect the engine between 6,000 mile service intervals.



### Police Radio:

Connections for the police radio are provided under the floor of the radio box. A special connection plug is required – BMW PN 65 12 2 221 642, which comes complete with crimp terminals for large and medium gauge wire. Connections for battery power, switched power and ground are provided.



### Power Management Module: (PMM)

The PMM is an electronic timed relay that energizes the battery + police radio when the ignition is turned “ON”, and remains “ON” after the ignition is turned “OFF” for 30 minutes. After 30 minutes, the relay opens and the radio power is terminated. This option is used when police radios have large parasitic loads that can discharge the auxiliary battery when parked. The PMM also has timed output connections for helmet headset interface modules, so that whenever the radio is functioning – the helmet headsets are as well.

**Note:** You can cycle the ignition switch during the 30 minute countdown to restart the 30 minute clock if additional radio time is needed with ignition “OFF” such as when running radar. The PMM is not a load-shed circuit, so the circuit will remain live during operation of the starter motor.

### Saddlebag Load Limits:

BMW police saddlebags are designed with no electronic equipment stored in either saddlebag. This enables riders to utilize the full capacity of the saddlebag for their needs. Soft luggage brief-cases are available from BMW under PN 71 60 7 704 109.

### Warning:

Maximum load in each saddlebag is 15 lb. Do not exceed 80 mph with loads exceeding 15 lb. per saddlebag.  
MCS-PL05



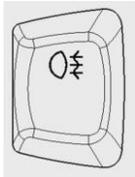
### Index:

- + Left Handlebar Controls
- + Right Handlebar Controls
- + Charging System / Auxiliary Battery
- + Break-In Recommendations
- + Locking Side Stand (optional)
- + Fuel Requirements
- + Power Sockets
- + Authority Circuits / Fuses
- + Tires / Pressures / TPM
- + Off-Season Storage
- + Accessory Connections
- + Saddlebag Load Limits
- + Warning Labels
- + Engine Oil

# Left Handlebar Controls:

## Switch Layout:

The left handlebar switch contains the standard operating controls for the police motor. The horn switch also operates the siren air horn when the ignition is turned "ON". A combination authority switch contains three rocker switches. These rocker switches control your Cruise Lights, Alley Lights and optional Take-Down Lights.



## Cruise Lights:

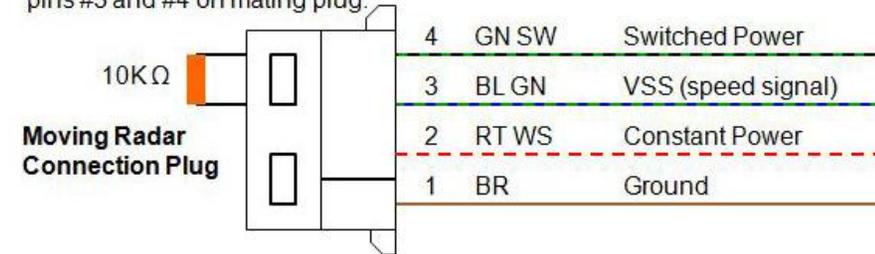
BMW provides Cruise Lights as standard equipment. The Cruise Light feature illuminates the forward + 45° facing and rear facing LED emergency lights at 10% power, providing less distracting illumination for marking / parking lights. The Cruise Light feature operates with ignition "ON". Press the momentary rocker switch to turn the Cruise Lights "ON". Press the momentary switch again to turn them "OFF". When Cruise Lights are "ON", an amber LED indicator light will be "ON".

## Radar Connections:

The R 1200 RT-P is pre-wired for installation of moving radar. A four-conductor plug resides under the radio box with connections for:

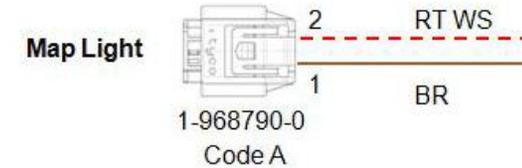
- Switched Power
- Speed Signal
- Battery Power
- Ground

Add 10K $\Omega$  Resistor to Boost VSS for Kustom & Stalker Moving Radar between pins #3 and #4 on mating plug.



## Map Light:

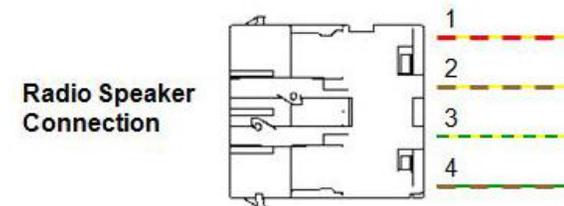
Connections for the BMW map light option are pre-wired on the left handlebar switch cable bundle. The map light circuit is powered by the auxiliary battery with continuous power, so it is important to turn the map light "OFF" – it will not switch "OFF" with the ignition switch.



## Radio Speaker Connection:

Two stereo radio speakers are standard equipment on the R 1200 RT-P.

Connection points to these 4 $\Omega$  speakers is provided under the floor of the radio box. Use BMW PN 65 13 2 220 685 plug to connect to the speakers. Typical connections are for police radio and radar Doppler audio.



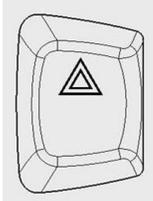
## Off-Season Storage:

In addition to the recommendations from the Rider's Manual for storage, it is recommended that fuses #3 and #4 be removed to eliminate any parasitic loads on the auxiliary battery. This will enable the auxiliary battery to retain a charge much longer. If any other accessories are installed that also have parasitic loads such as police radios, video systems, etc., remove those fuses as well to ensure maximum auxiliary battery charge retention.

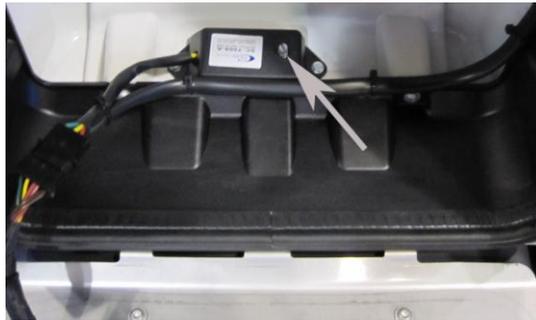
## Accessory Connections:

### Gun Lock and Timer:

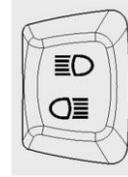
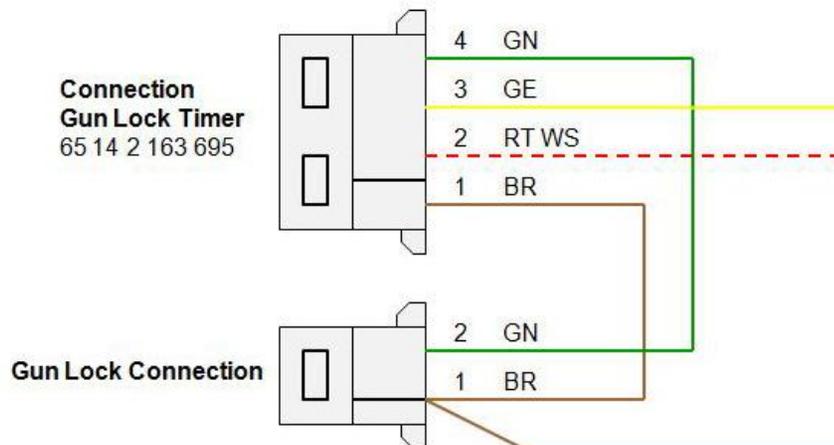
The gun lock timer connection is pre-wired with a four-pin plug to connect directly to the timer. The timer can be adjusted using the rotating post shown at right. The time period that the gun lock will remain "unlocked" after pressing the gun lock release button can be adjusted between 15 and 45 seconds.



The time period that the gun lock will remain "unlocked" after pressing the gun lock release button can be adjusted between 15 and 45 seconds.



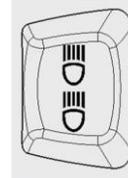
Connection to the gun lock is made through the two-conductor plug located under the radio box lid (on the same lead as the lock timer plug).



### Alley Lights:

BMW provides Alley Lights as standard equipment. The Alley Light feature allows the rider to illuminate the left or right front side-facing LED emergency light in steady-burn mode, over-riding the system emergency lights, providing illumination similar to the alley light on marked cruisers.

When fitted with white front side-facing LED emergency lights, the Alley Light feature provides outstanding side illumination. A blue indicator LED will illuminate when either left or right alley light is selected. Rock the switch up for left light, middle position is "OFF", down for right light.



### Take-Down Lights: (optional)

BMW pre-wires the Take-Down Light (TDL) feature including TDL switch as standard equipment. Add TDL's and the TDL control module to activate this feature. Press the TDL switch up to activate both TDL's in steady-burn mode, for use during violator stops or for additional day-time illumination. A red indicator LED will illuminate in take-down mode. The middle position is "OFF". Rock the TDL switch down to activate wig-way mode. In this mode, the TDL's will wig-wag opposite the flashing of the front emergency LED lights whenever the emergency LED lights are activated. A green indicator will illuminate when in wig-wag mode.

The middle position is "OFF". Rock the TDL switch down to activate wig-way mode. In this mode, the TDL's will wig-wag opposite the flashing of the front emergency LED lights whenever the emergency LED lights are activated. A green indicator will illuminate when in wig-wag mode.



### Info Display: (pace-lock)

The information display button locks the digital electronic police speedometer and displays the locked value on the LCD display. This locked speed value will remain through ignition sessions, only to be replaced by the next value locked. The digital electronic police speedometer is accurate within  $\pm 2$  mph throughout the speed range of the motorcycle. This accuracy is ensured provided that the motor is fitted with the approved Dunlop tires and inflated to the recommended pressure. Speed variation between worn and new tires is approximately .5 miles per hour.

will remain through ignition sessions, only to be replaced by the next value locked. The digital electronic police speedometer is accurate within  $\pm 2$  mph throughout the speed range of the motorcycle. This accuracy is ensured provided that the motor is fitted with the approved Dunlop tires and inflated to the recommended pressure. Speed variation between worn and new tires is approximately .5 miles per hour.



### All-Way Turn Signal Flashers:

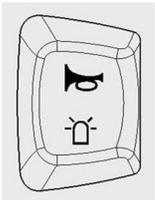
To activate all-way flashers, press the red flasher button. Once activated, the ignition can be turned-off and the flasher will remain but can't be started with ignition "OFF". To cancel all-way flashers, just press the red button.

"OFF". To cancel all-way flashers, just press the red button.

## Right Handlebar Controls:

### Switch Layout:

The right handlebar switch contains the standard operating controls for the police motor including starter button, engine emergency STOP switch, as well as optional heated handlebar grips and optional heated seat.



### Siren Activation:

The BMW/Code 3 siren is operated by the momentary rocker switch with the trumpet emblem, but only when the ignition is "ON". Pressing the button engages the siren into wail tone. Each subsequent press of the button advances to yelp, then hyper-yelp, then back to wail (California models do not have hyper-yelp activated). Press and hold to turn-off siren at any time. For a quick, momentary activation, simply press the button and then press and hold again (double-tap).

## LED Emergency Light System:

Each of the LED emergency light system circuits to the LED light heads is protected by self-resetting electronic switches. In the unlikely event of a short circuit, the "channel" to those light heads will shut-down until the malfunction is corrected. To troubleshoot the light, disconnect the light and check the lead power with a conventional test light. Next, check the light head connection to ensure that power and ground are secure.

- L&R Front Channel
- L&R Front Side Channel
- L&R Rear Side Channel
- L&R Rear Channel
- L&R Auxiliary Rear Channel  
(activated with photo-eye or loop plug)

## Tires and Pressures:

The R 1200 RT-P is fitted with tires that meet the California Highway Patrol and Los Angeles Sheriff's Department run-flat protocol. Additionally, the accurate police speedometer is calibrated for use with these specific tires. Fitting other BMW approved tires that are of a different specification may alter the accuracy of police speedometer. Never mount tires that are not approved for use on this model by BMW.

36 12 2 157 847	Front Dunlop Roadsmart Police Tire
36 12 2 157 853	Rear Dunlop Roadsmart Police Tire

## Tire Pressures:

Front Tire:	36 PSI
Rear Tire:	42 PSI

## Optional Tire Pressure Monitoring (TPM):

The TPM option (displayed as RDC) provides a very accurate PSI reading for each tire while the motorcycle is in operation as well as a warning if the pressure should fall below the specified value. The TPM system will initialize after the wheels have completed several revolutions after the motor is started. An amber warning will light if the pressure drops below the specified value. In the event of rapid pressure loss, a red warning will appear in the rider information display to alert the rider that a more severe loss condition (tire puncture) has occurred. Consult the motorcycle Rider's Manual for additional information.



## Fuses and Circuits:

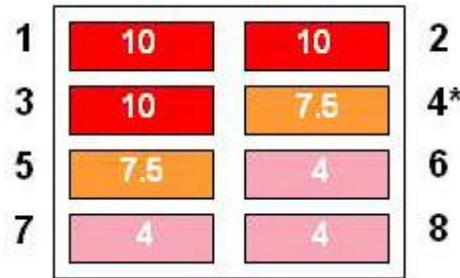
The R 1200 RT-P main motorcycle circuits are protected by the motorcycle ZFE electronics module, which contains electronic switches to protect the motorcycle circuits from overload. No fuses are utilized in the main motorcycle circuits – the ZFE acts like “self-resetting circuit breakers” to protect each circuit.

### Auxiliary Battery Circuits:

The auxiliary battery is fitted with eight conventional circuits to more easily enable connection of police accessories.

Circuits are present for all pre-wired standard and accessory functions such as siren, emergency lights, police radio, helmet headset interfaces, map light, gun lock, moving radar, etc.

Two additional circuits are provided (#6 & #8) for the connection of optional accessories such as video systems, laptop computers, thermal printers, etc.



AB	Auxiliary Battery
MB	Main Battery
SP	Switched Power
CP	Constant Power

**\* Reduced from Euro Spec of 15A**

#	BAT	Type	Description
1	AB	CP	Rear Power Socket + Siren Main Power Feed
2	AB	CP	Clean Power for Police Radio & Helmet Headset Interface
3	AB	CP	Power for LED Emergency Light System
4	AB	CP	Power for Map Light, Gun Lock, Moving Radar, TDL
5	AB	SP	Power for Radio Wake-Up + Siren Wake-Up
6	AB	CP	Power for Accessories (video, laptop, etc.)
7	AB	SP	Two-Way Rear Turn Signal Flashers
8	AB	SP	Power for Accessories (laptop, flashlight, printers, etc.)



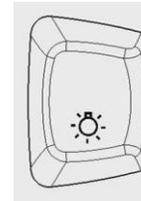
### Emergency LED Lights:

This momentary rocker switch controls the switching power to all emergency lights. Rocking the switch down engages the front and rear emergency lights. Rocking the switch again engages the rear

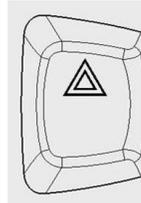


emergency lights. Rocking the switch again engages the front emergency lights. With each subsequent press of the rocker switch, the pattern repeats. To turn-off the emergency lights, press and hold. The same switch logic and time used on the siren system is used on the emergency light system.

An LED indicator display can be seen through the back of the right front LED emergency light housing, showing whether the front and/or rear emergency lights are switched “ON”.



**Lights “OFF” Switch:** The two-position headlight switch allows the rider to turn all lights “OFF” or activate all lights. This switch controls headlight and taillight but does not control dashboard lights, which can be dimmed by the dimmer button on the dashboard. A green LED indicator notifies the rider that the lights are “OFF”. Note that the lights will momentarily turn-off when the starter is engaged (load shedding).



### Rear Emergency Flasher Switch:

Pressing switch will activate the rear emergency flashers (as well as side flashers if equipped), meaning that the rear (and side) turn signals will flash simultaneously. This function operates with ignition “ON”. When operated, the front turn signals will still function normally to signal your intentions.

### Gun Lock Release: (unmarked)

The momentary down side of the rear flasher switch is the gun lock release. Pressing the momentary lock release button (with ignition “ON”) will energize the pre-wired lead, connecting to an optional gun lock. Additionally, a lock release timer connection is pre-wired to accept the BMW lock timer. This will enable the officer to press the release button prior to turning-off the motorcycle. The lock release timer allows the lock to remain unlocked for a variable time of 15 to 45 seconds, enabling the rider to dismount the motor and remove the weapon from the rear prior to the lock re-engaging.

## Break-In Recommendations:

Read and follow the Rider's Manual recommendations, but for police agencies, we recommend that you ride the motor "briskly" for the first 600 miles, to ensure that the rings are well seated, since synthetic oil is used from the 600 mile service forward. The ideal situation would be riding on twisty roads where there is constant change in road speed, working the gearbox and throttle. This includes higher-speeds with frequent on-off movements of the throttle. Avoid full-throttle acceleration / load, but don't be afraid to run the speed up to ensure good ring seating.

**Note:** Use BMW Super Synthetic Motor Oil in police motors starting with the 600 mile inspection.

## Locking Side Stand:

The locking side stand option enables the officer to park the motorcycle without worry that it will roll off the side stand. Swing the stand out completely. Once the weight of the motorcycle is placed on the stand, the locking mechanism will engage. When weight is relieved from the stand, the springs will pull the stand down, enabling the stand to be returned to the "up" position.



**Caution:** The stand is designed to support the weight of the motorcycle while parked, not to support the additional weight of the officer mounting the motorcycle, particularly from the "low" side. Placing additional stress on the stand by mounting on the low side may cause damage to the side stand or the stand pivot on the frame which would not be covered by the new motorcycle limited warranty.

**Routine Stand Maintenance:** The pivot mechanism of the locking stand requires lubrication at each 6,000 mile service point. Use a needle grease tip with an OD of .065" - .075" (automotive ball-joint needle fitting) to lubricate the pivot pin.



## Fuel Requirements:

The new overhead cam engine can operate on **89 AKI middle-grade fuel**, though it should be noted that best performance will be obtained using 91 AKI premium fuel.

## Accessory Power Sockets:

Two accessory power sockets are provided as standard equipment on each R 1200 RT-P model. The two sockets are fed from different circuits as each socket charges one of the two batteries that are standard equipment.

### Front Socket:

The front power socket is connected to the main motorcycle battery through the ZFE controller, which limits the socket load to 5A. Additionally, if a battery charger is connected to this socket through the ZFE, that charger must be ZFE compatible. Alternatively, BMW provides a direct access cable (65 14 2 153 835) which allows the front socket to be connected



directly to the main battery with an in-line fuse. This option allows use of a regular gel battery charger (72 11 0 419 496) to be connected as well as enable the power socket to be used with heated jacket liners, etc. which typically can have a load in excess of 5A.

### Rear Socket:

The rear power socket is connected to the auxiliary battery through the auxiliary fuse box (fuse location #1 = 10A). Utilize this socket to charge the auxiliary battery. This circuit supplies power to the siren system, so it should not be utilized for additional accessories when the motor is in operation. There are other fused circuits if additional accessories are to be installed.

