

2005 BMW 6 Series (E63/E64)



Wiring Information

| Item | Wire Color | Polarity | Wire Location |
|----------------------------|---|------------|---|
| 12 Volts | red/green (50A) | + | Car Access System, 41 pin plug, pin 21 |
| Second 12 Volts | N/A | | |
| Starter | black (for starter kill only) | + low curr | Car Access System, 41 pin plug, pin 22 |
| Second Starter | N/A | | |
| Ignition | green/gray (for ignition sense only) | + low curr | Car Access System, 41 pin plug, pin 8 |
| Second Ignition | N/A | | |
| Third Ignition | N/A | | |
| Accessory | N/A | | |
| Second Accessory | N/A | | |
| Third Accessory | N/A | | |
| Key Sense | N/A | | |
| Data Bus | N/A | | |
| Can Bus High | black | data | Car Access System, 41 pin plug, pin 35 |
| Can Bus Low | yellow | data | Car Access System, 41 pin plug, pin 26 |
| Can Bus Sw | N/A | | |
| Power Lock | yellow/red | - | Car Access System, 41 pin plug, pin 29 |
| Power Unlock | same as power lock | | |
| Lock Motor | white/brown or black/yellow | 5 wire | Body Gateway Module, 51 pin plug (X16759), pin 32 or 51 |
| Unlock Motor | blue/yellow | 5 wire | Body Gateway Module, 51 pin plug (X16759), pin 19 |
| Disarm Defeat | blue/yellow | 5 wire | Body Gateway Module, 51 pin plug (X16760), pin 32 |
| Parking Lights (+) | gray/green (LF), gray/blue (RF) | + | Light Module, 76 pin plug, pins 25 and 40 |
| Parking Lights (-) | black (interrupt to turn on parking lights) | - | Light Module, 76 pin plug, pin 36 |
| Hazards | brown/blue | - | Light Module, 76 pin plug, pin 52 |
| Turn Signal (Left) | blue/green (F), blue/green (R) | + | Light Module, 76 pin plug, pins 68 and 4 |
| Turn Signal (Right) | blue/brown (F), blue/brown (R) | + | Light Module, 76 pin plug, pins 24 and 61 |

Wiring Information (Continued)

| Item | Wire Color | Polarity | Wire Location |
|---------------------------------------|---------------------------------------|-----------|---|
| Headlight | yellow/green (L), yellow/blue (R) | + | Light Module, 76 pin plug, pins 53 and 15 |
| AutoLights | | | |
| Reverse Light | white/yellow | + | Light Module, 76 pin plug, pin 41 |
| Left Front Door Trigger | yellow/blue | - | Body Gateway Module, 51 pin plug (X16759), pin 29 |
| Right Front Door Trigger | yellow/blue | - | Body Gateway Module, 51 pin plug (X16760), pin 42 |
| Left Rear Door Trigger | N/A | | |
| Right Rear Door Trigger | N/A | | |
| Dome Supervision | red/blue | + | Body Basic Module, 54 pin plug, pin 52 |
| Trunk/Hatch Pin | gray/brown | - N.C. | Body Basic Module, 54 pin plug, pin 16 |
| Rear Glass Pin | N/A | | |
| Hood Pin | purple/green | - | Car Access System, 41 pin plug, pin 38 |
| Trunk Hatch/Release | gray/brown | - | Car Access System, 41 pin plug, pin 39 |
| Trunk Release Motor | black/yellow or yellow | 5 wire | Body Basic Module, 13 pin plug, pin 3 |
| Fuel Door Release | unlocks along with driver door | | |
| Power Sliding Door (Left) | N/A | | |
| Power Sliding Door (Right) | N/A | | |
| Factory Alarm Arm | blue/red | - | Body Gateway Module, 51 pin plug (X16759), pin 28 |
| Factory Alarm Disarm | white/green (double pulse) | - | Body Gateway Module, 51 pin plug (X16759), pin 15 |
| Disarm No Unlock | Transponder and push-button start | | |
| Trunk Alarm Shunt | N/A | | |
| Tachometer | black | ac | data link connector, 16 pin plug, pin 9 |
| Wait to Start | N/A | | |
| Neutral Safety | N/A | | |
| Clutch Pedal | brown/black (in), blue/black (out) | - | clutch switch, 4 pin plug, pins 1 and 4 |
| Fuel Pump | white/blue | + | fuel pump relay behind glove box |
| Rear Defroster | gray/black | + latched | Heating and A/C System, 26 pin plug, pin 19 or 18 pin plug, pin 14 |
| Mirror Defroster | N/A | | |
| Left Front Heated Seat | green/purple | 5 wire | center console switch, plug (X14056), pin 2 |
| Right Front Heated Seat | green/yellow | 5 wire | center console switch, plug (X14056), pin 3 |

Wiring Information (Continued)

| Item | Wire Color | Polarity | Wire Location |
|------------------------------|--|----------|--|
| Speed Sense | brown/red | ac | Car Access System, 41 pin plg, pin 31 or radio, 12 pin plg, pin 12 |
| Brake Wire | brown/gray (functions with ignition on only) | + | Car Access System, 41 pin plug, pin 32 |
| Parking Brake | blue/brown/yellow | - | parking brake switch, 1 pin plug, pin 1 |
| Horn Trigger | purple/blue (L), purple/gray (H) | + | steering column switch cluster, plug (X1880), pin 4 and 3 |
| Wipers | brown/blue | - | Body Basic Module, 54 pin plug, pin 18 |
| Left Front Window (Up/Down) | use factory alarm arm/disarm | | |
| Right Front Window (Up/Down) | see left front window | | |
| Left Rear Window (Up/Down) | see left front window | | |
| Right Rear Window (Up/Down) | see left front window | | |
| Sun Roof (Open/Close) | brn/red - brn/pur (function with ignition on only) | - | center console sw, plug (X14058), pins 7 and 8 (convertible) |
| Sun Roof (Limit/Close) | N/A | | |
| Memory Seat 1 | switch part of module | | |
| Memory Seat 2 | switch part of module | | |
| Memory Seat 3 | switch part of module | | |
| Radio 12V | red/brown | + | radio, 16 pin plug, pin 15 |
| Radio Ground | brown | - | radio, 16 pin plug, pin 12 |
| Radio Ignition | (CAN bus) | | |
| Radio Illumination | gray/red (dimmer) | + | radio, 16 pin plug, pin 14 |
| Factory Amp Turn-on | same as power antenna (HIFI), MOST bus (Top HIFI) | | |
| Power Antenna | white/purple | + | radio, 16 pin plug, pin 13 |
| Left Front Speaker (+/-) | red/white - brown/yellow or yellow/green - yel/brn | +,- | radio, 16 pin plug, pins 3 and 7 |
| Right Front Speaker (+/-) | red/blue - brown/white or blue/red - blue/brown | +,- | radio, 16 pin plug, pins 2 and 6 |
| Left Rear Speaker (+/-) | black/red - black/purple | +,- | radio, 16 pin plug, pins 4 and 8 |
| Right Rear Speaker (+/-) | yellow/black - yellow/brown | +,- | radio, 16 pin plug, pins 1 and 5 |
| Center Channel (+/-) | black/white - black/brown | +,- | amplifier, 20 pin plug, pins 5 and 15 |
| Subwoofer (+/-) | paralleled with front speakers | | |
| Aux. Audio Input Left (+/-) | black - (shield) | +,- | radio, 12 pin plug, pins 2 and 8 |
| Aux. Audio Input Right (+/-) | yellow - (shield) | +,- | radio, 12 pin plug, pins 7 and 8 |
| RSE Video (+/-) | black - (shield) | +,- | radio, 12 pin plug, pins 4 and 2 |
| RSE Audio Left (+/-) | (MOST bus) | | |
| RSE Audio Right (+/-) | (MOST bus) | | |

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|---|-----------------|---|---------------------------------------|
| DirectWire Vehicle Information - 6/14/2012 2:04:12 AM | red/blue | + | Satellite Receiver, 5 pin plug, pin 1 |
| Satellite Radio 12 Volts | | | |
| Satellite Radio Ground | brown | - | Satellite Receiver, 5 pin plug, pin 5 |
| Satellite Radio Ignition | (MOST bus) | | |
| Satellite Radio Antenna | (coaxial cable) | | |
| Satellite Audio Left (+/-) | (MOST bus) | | |
| Satellite Audio Right (+/-) | (MOST bus) | | |

What Fits

| Item | Size | Depth | Location |
|------------------------------|-----------|-------|---|
| Headunit | irregular | | center of dash |
| Left Front Speaker | 4 | | left front door |
| Left Front Tweeter | | | left front door |
| Right Front Speaker | 4 | | right front door |
| Right Front Tweeter | | | right front door |
| Left Rear Speaker | 4 | | left rear side panel (cpe, cnv); rear deck (cpe) |
| Left Rear Tweeter | | | left rear side panel |
| Right Rear Speaker | 4 | | right rear side panel (cpe, cnv); rear deck (cpe) |
| Right Rear Tweeter | | | right rear side panel |
| Center Channel | | | top center of dash |
| Subwoofer | | | under left and right front seats |
| Left Front Headrest | | | |
| Right Front Headrest | | | |
| Left Right Headrest | | | |
| Right Rear Headrest | | | |
| Satellite Radio Tuner | | | left side of luggage compartment |

Additional Wiring Notes

| Item | Note |
|----------------------------------|---|
| Can Bus Low | The Car Access System is under the driver dash. |
| Can Bus High | The Car Access System is under the driver dash. |
| Speed Sense | The Car Access System is under the driver dash. |
| Hood Pin | The Car Access System is under the driver dash. |
| Trunk Hatch/Release | The Car Access System is under the driver dash. |
| Brake Wire | The Car Access System is under the driver dash. |
| Power Lock | The Car Access System is under the driver dash. |
| Parking Lights (+) | The Light Module is above the driver kick. The LR - RR wires are black/red - black/brown at the Light Module, 76 pin plug, pins 64 and 10. |
| Turn Signal (Left) | The Light Module is above the driver kick. |
| Turn Signal (Right) | The Light Module is above the driver kick. |
| Headlight | The Light Module is above the driver kick. |
| Dome Supervision | The Body Basic Module is behind the glove box, behind the fuse holder. |
| Trunk/Hatch Pin | The Body Basic Module is behind the glove box, behind the fuse holder. |
| Trunk Release Motor | The Body Basic Module is behind the glove box, behind the fuse holder. |
| Rear Defroster | The Heating/Air Conditioning System is in the center of the dash. |
| Wipers | The Body Basic Module is behind the glove box, behind the fuse holder. |
| Satellite Radio 12 Volts | The Satellite Receiver is in the left side of the luggage compartment. |
| Lock Motor | The Body Gateway Module is behind the glove box, below the Body Basic Module. |
| Driver Unlock Motor | The Body Gateway Module is behind the glove box, below the Body Basic Module. |
| Passenger Unlock Motor | The Body Gateway Module is behind the glove box, below the Body Basic Module. |
| Left Front Door Trigger | The Body Gateway Module is behind the glove box, below the Body Basic Module. |
| Right Front Door Trigger | The Body Gateway Module is behind the glove box, below the Body Basic Module. |
| Factory Alarm Arm | The Body Gateway Module is behind the glove box, below the Body Basic Module. Meter this wire while turning the key in the driver door key cylinder. |
| Factory Alarm Disarm | The Body Gateway Module is behind the glove box, below the Body Basic Module. Meter this wire while turning the key in the driver door key cylinder. |
| Reverse Light | The Light Module is above the driver kick. |
| Hazards | The Light Module is above the driver kick. |
| Parking Lights (-) | The Light Module is above the driver kick. |
| 12 Volts | The Car Access System is under the driver dash. |
| Starter | The Car Access System is under the driver dash. |
| Ignition | The Car Access System is under the driver dash. |
| Left Front Speaker (+/-) | If equipped, the amplifier is in the left side of the luggage compartment. On vehicles with amplifier, the speaker wires are yellow/green - yellow/brown at the amplifier, 20 pin plug, pins 19 and 9. |
| Right Front Speaker (+/-) | If equipped, the amplifier is in the left side of the luggage compartment. On vehicles with amplifier, the speaker wires are blue/red - blue/brown at the amplifier, 20 pin plug, pins 17 and 7. |
| Left Rear Speaker (+/-) | If equipped, the amplifier is in the left side of the luggage compartment. On vehicles with amplifier, the side speaker wires are black/red - black/purple at the amplifier, 20 pin plug, pins 14 and 4. The deck speaker wires are yellow/black - yellow/brown at the amplifier, 20 pin plug, pins 1 and 11. |
| Right Rear Speaker (+/-) | If equipped, the amplifier is in the left side of the luggage compartment. On vehicles with amplifier, the side speaker wires are yellow/black - yellow/brown at the amplifier, 20 pin plug, pins 13 and 3. The deck speaker wires are blue/green - blue/brown at the amplifier, 20 pin plug, pins 12 and 2. |
| Center Channel (+/-) | If equipped, the amplifier is in the left side of the luggage compartment. |
| Subwoofer (+/-) | If equipped, the amplifier is in the left side of the luggage compartment. On vehicles with amplifier, |

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