

2006 BMW X3 (E83)



Remote Start, Security, Keyless Entry, Accessories

| Item | Wire Color | Polarity | Wire Location |
|---------------------------------|-----------------------------------|----------|-----------------------------------------------------------|
| 12 Volts | red/blue (50A) | + | ignition switch, 11 pin plug, pin 5 |
| Second 12 Volts | red/green (50A) | + | ignition switch, 11 pin plug, pin 6 |
| Starter | black/blue | + | ignition switch, 11 pin plug, pin 8 |
| Second Starter | N/A | | |
| Ignition | green | + | ignition switch, 11 pin plug, pin 9 |
| Second Ignition | purple | + | ignition switch, 11 pin plug, pin 2 |
| Third Ignition | red/black or red/blue | + | ignition switch, 11 pin plug, pin 10 |
| Accessory | N/A | | |
| Second Accessory | N/A | | |
| Third Accessory | N/A | | |
| Keysense | N/A | | |
| Data Bus | white/red/yellow (instrument bus) | data | Immobilizer Control Unit, 13 pin plug, pin 13 |
| Can Bus High | yellow/red (powertrain bus) | data | instrument cluster, 26 pin plug, pin 17 |
| Can Bus Low | yellow/brown (powertrain bus) | data | instrument cluster, 26 pin plug, pin 16 |
| Can Bus Sw | N/A | | |
| Power Lock | yellow/red | - | central locking switch or GMCU, 54 pin plug, pin 7 |
| Power Unlock | same as power lock | | |
| Lock Motor | white or white/yellow | 5 wire | GMCU, 54 pin plug, pin 13 |
| Driver Unlock Motor | blue or blue/brown | 5 wire | GMCU, 54 pin plug, pin 51 |
| Passenger Unlock Motor | blue or blue/gray | 5 wire | GMCU, 54 pin plug, pin 33 |
| Parking Lights (-) | see Tech Doc 1055 | | |
| Parking Lights (+) | gray/purple (L), gray/yellow (R) | + | Light Switch Module, 54 pin plug, pins 30 and 29 |
| Hazards | brown/blue | - | hazard switch or Light Switch Module, 54 pin plug, pin 24 |
| Turn Signal (Left) | blue/green (F), blue/green (R) | + | Light Switch Module, 54 pin plug, pins 50 and 1 |
| Turn Signal (Right) | blue/brown (F), blue/brown (R) | + | Light Switch Module, 54 pin plug, pins 11 and 43 |
| Headlight | yellow/green (L), yellow/blue (R) | + | Light Switch Module, 54 pin plug, pins 7 and 34 |
| AutoLights | | | |
| Reverse Light | blue/yellow | + | instrument cluster, 26 pin plug, pin 22 |
| Left Front Door Trigger | brown/gray/yellow | - | GMCU, 54 pin plug, pin 26 |
| Right Front Door Trigger | brown/gray/yellow or purple/black | - | GMCU, 54 pin plug, pin 25 |
| Left Rear Door Trigger | brown/gray | - | GMCU, 54 pin plug, pin 24 |
| Right Rear Door Trigger | brown/gray or yellow/green | - | GMCU, 54 pin plug, pin 23 |

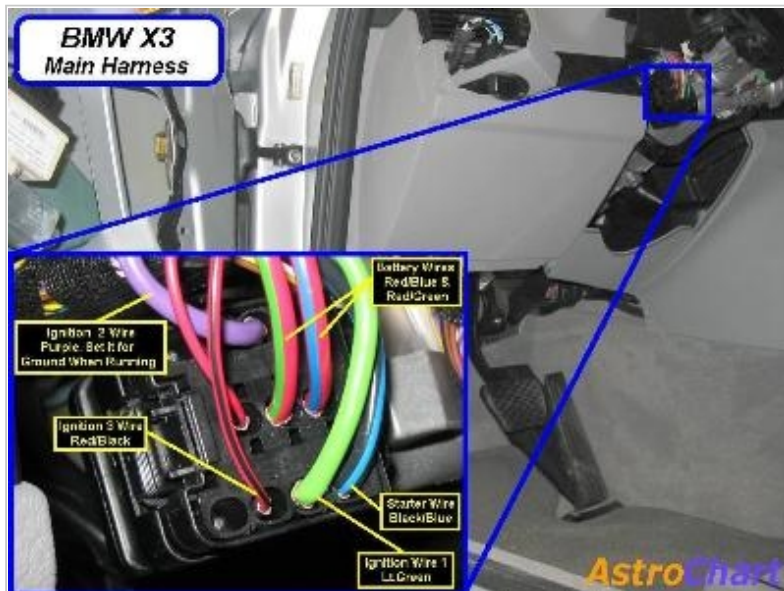
Remote Start, Security, Keyless Entry, Accessories (Continued)

| Item | Wire Color | Polarity | Wire Location |
|-------------------------------------|----------------------------------------------------|-----------|-------------------------------------------------------------------|
| Dome Supervision | red/blue | + | GMCU, 54 pin plug, pin 18 |
| Trunk/Hatch Pin | gray/brown | - N.C. | GMCU, 54 pin plug, pin 42 |
| Rear Glass Pin | N/A | | |
| Hood Pin | purple/green | - | GMCU, 26 pin plug, pin 7 |
| Trunk/Hatch Release | gray/red or gray/yellow | - | GMCU, 54 pin plug, pin 44 |
| Trunk Release Motor | gray/green | 5 wire | GMCU, 54 pin plug, pin 17 |
| 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 or brown/yellow | - | GMCU, 54 pin plug, pin 22 |
| Factory Alarm Disarm | white/black | - | GMCU, 54 pin plug, pin 20 |
| Disarm No Unlock | Transponder and ignition | | |
| 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 under rear seat |
| Rear Defroster | blue/brown | - latched | Heating and A/C System, 6 pin plug, pin 3 |
| Mirror Defroster | N/A | | |
| Left Front Heated Seat | green/purple | 5 wire | center console switch, pin 1 |
| Right Front Heated Seat | green/yellow | 5 wire | center console switch, pin 13 |
| Speed Sense | yellow/green | ac | instrument cluster, 26 pin plug, pin 6 |
| Brake Wire | brown/gray or blue/red (function with ign on only) | + | brake switch or Light Switch Module, 54 pin plug, pin 25 |
| Parking Brake | blue/brown/yellow | - | large harness near gas pedal or instr cluster, 26 pin plug, pin 2 |
| Horn Trigger | purple/blue | + | horn relay behind fuse box, behind glove box |
| Wipers | brown/blue or yellow/purple | - | GMCU, 54 pin plug, pin 11 |
| 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) | yellow/grn and yel/wht (function with ign on only) | 1 sec (-) | moonroof switch, 6 pin plug, pins 4 and 3 |
| Sun Roof (Limit/Close) | gray/black and yel/wht (function with ign on only) | 1 sec (-) | moonroof switch, 6 pin plug, pins 5 and 3 |
| Memory Seat 1 | switch part of module | | |
| Memory Seat 2 | switch part of module | | |
| Memory Seat 3 | switch part of module | | |

| <i>Audio</i> | | | |
|-------------------------------------|-------------------------------------------------------|----------|---------------------------------------------------------|
| Item | Wire Color | Polarity | Wire Location |
| Radio 12V | red/green | + | radio, 16 pin plug, pin 15 |
| Radio Ground | brown | - | radio, 16 pin plug, pin 12 |
| Radio Ignition | purple/white | + | radio, 16 pin plug, pin 16 |
| Radio Illumination | gray/red (dimmer) | + | radio, 16 pin plug, pin 14 |
| Factory Amp Turn-on | same as power antenna | | |
| Power Antenna | white | + | radio, 16 pin plug, pin 13 |
| Left Front Speaker (+/-) | yellow/red - yellow/brown or yellow/red - brn/org | +,- | radio, 16 pin plug, pins 3 and 7 |
| Right Front Speaker (+/-) | blue/red - blue/brown or blue/red - brown/orange | +,- | radio, 16 pin plug, pins 2 and 6 |
| Left Rear Speaker (+/-) | yellow/black - yellow/brown or yellow/bk - brn/org | +,- | radio, 16 pin plug, pins 4 and 8 |
| Right Rear Speaker (+/-) | yellow/purple - yellow/gray or blue/blk - brn/org | +,- | radio, 16 pin plug, pins 1 and 5 |
| Center Channel (+/-) | N/A | | |
| Subwoofer (+/-) | red/wht - brown/org (L), red/blue - brown/grn (R) | +,- | amplifier, 42 pin plug, pins 4 and 3 (L), 23 and 22 (R) |
| Aux. Audio Input Left (+/-) | black - (shield) | +,- | radio, 12 pin plug, pins 3 and 10 |
| Aux. Audio Input Right (+/-) | yellow - (shield) | +,- | radio, 12 pin plug, pins 4 and 10 |
| RSE Video (+/-) | N/A | | |
| RSE Audio Left (+/-) | white/red - white/brown (CD changer audio) | +,- | radio, 12 pin plug, pins 9 and 2 |
| RSE Audio Right (+/-) | white/blue - white/brown (CD changer audio) | +,- | radio, 12 pin plug, pins 8 and 2 |
| Satellite Radio 12 Volts | | | |
| Satellite Radio Ground | | | |
| Satellite Radio Ignition | | | |
| Satellite Radio Antenna | | | |
| Satellite Audio Left (+/-) | | | |
| Satellite Audio Right (+/-) | | | |

| <i>What Fits</i> | | | |
|-----------------------|-----------|-------|--------------------------------|
| 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 door |
| Left Rear Tweeter | | | left rear door |
| Right Rear Speaker | 4 | | right rear door |
| Right Rear Tweeter | | | right rear door |
| Center Channel | N/A | | |
| Subwoofer | | | |
| Left Front Headrest | | | |
| Right Front Headrest | | | |
| Left Rear Headrest | | | |
| Right Rear Headrest | | | |
| Satellite Radio Tuner | | | driver side rear quarter panel |

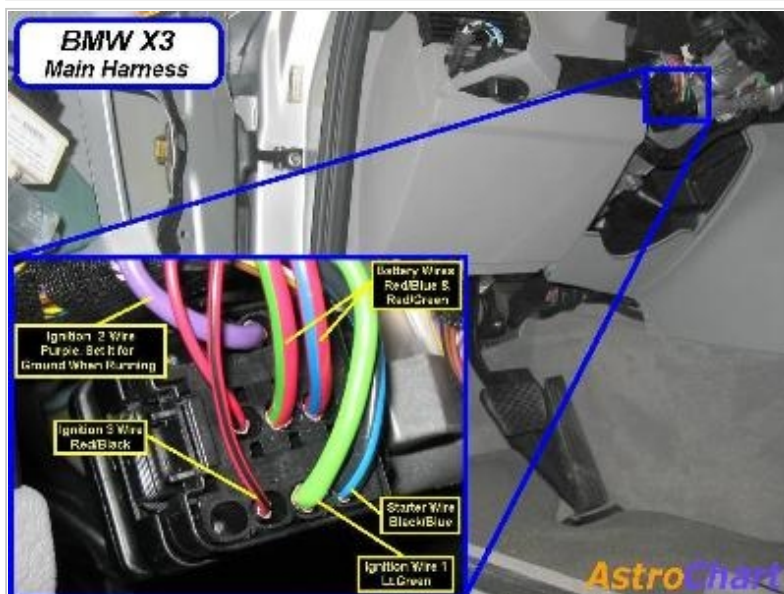
Wiring Photo and Notes: 12 Volts



Notes:

There are currently no notes for this item.

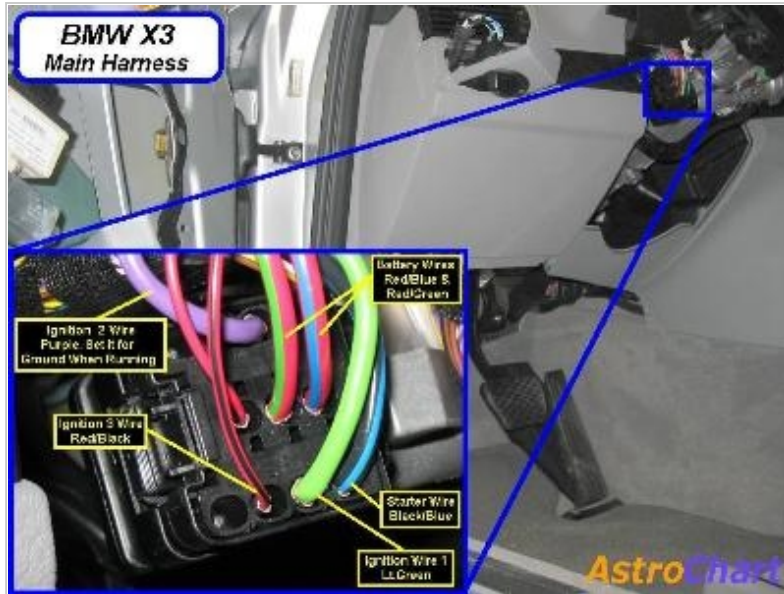
Wiring Photo and Notes: Second 12 Volts



Notes:

There are currently no notes for this item.

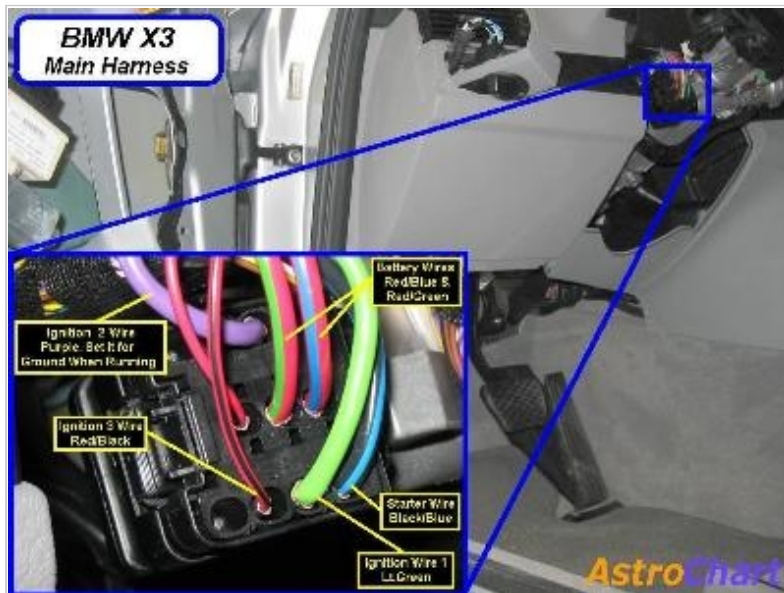
Wiring Photo and Notes: Starter



Notes:

There are currently no notes for this item.

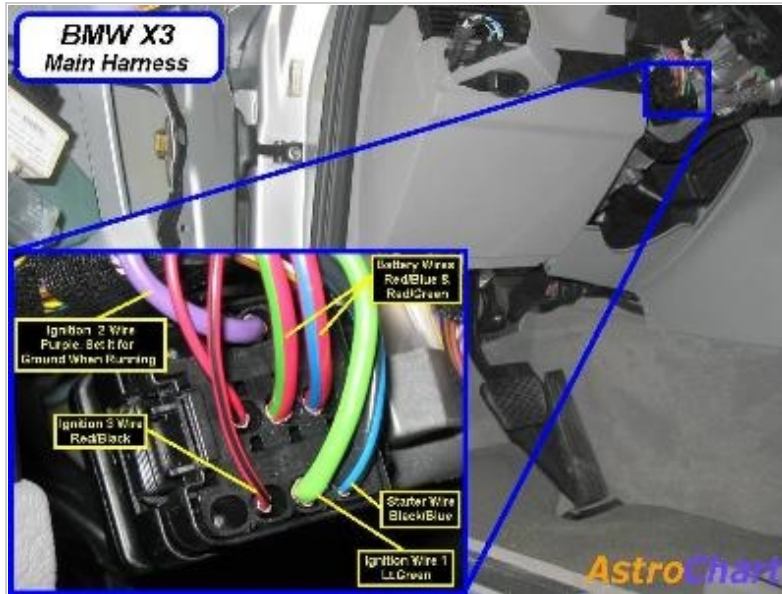
Wiring Photo and Notes: Ignition



Notes:

There are currently no notes for this item.

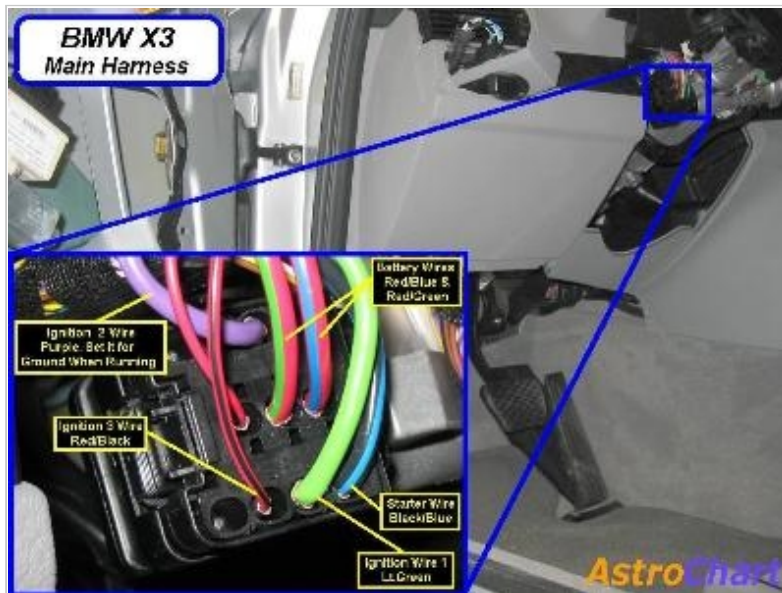
Wiring Photo and Notes: Second Ignition



Notes:

This wire needs to be powered before ignition. Use status or ground when running to trigger.

Wiring Photo and Notes: Third Ignition



Notes:

There are currently no notes for this item.

*Wiring Notes: Data Bus***Notes:**

The Immobilizer Control Unit is above the driver kick. The security light wire is gray/black/yellow (-) at the GMCU, 26 pin plug, pin 23. The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Power Lock***Notes:**

The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Lock Motor***Notes:**

The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Driver Unlock Motor***Notes:**

The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Passenger Unlock Motor***Notes:**

The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Left Front Door Trigger***Notes:**

The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Right Front Door Trigger***Notes:**

The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Left Rear Door Trigger***Notes:**

The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Right Rear Door Trigger***Notes:**

The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Dome Supervision***Notes:**

The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Trunk/Hatch Pin***Notes:**

The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Hood Pin***Notes:**

The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Trunk/Hatch Release***Notes:**

The GMCU (General Module Control Unit) is behind the glove box. Meter this wire while opening the liftgate from the handle on the rear of the vehicle.

*Wiring Notes: Trunk Release Motor***Notes:**

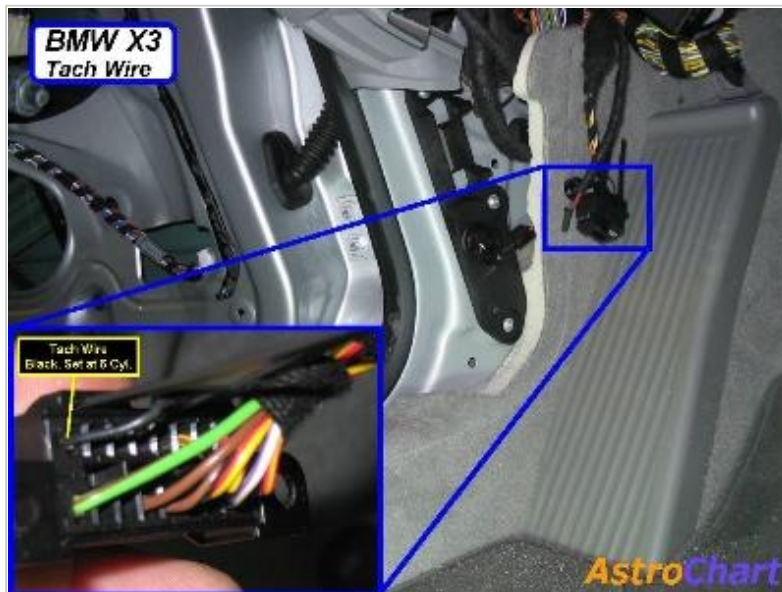
The GMCU (General Module Control Unit) is behind the glove box.

*Wiring Notes: Factory Alarm Arm***Notes:**

The GMCU (General Module Control Unit) is behind the glove box. Meter this wire while turning the key in the driver door key cylinder.

*Wiring Notes: Factory Alarm Disarm***Notes:**

The GMCU (General Module Control Unit) is behind the glove box. Meter this wire while turning the key in the driver door key cylinder.

Wiring Photo and Notes: Tachometer**Notes:**

There are currently no notes for this item.

Wiring Photo and Notes: Brake Wire



Notes:

There are currently no notes for this item.

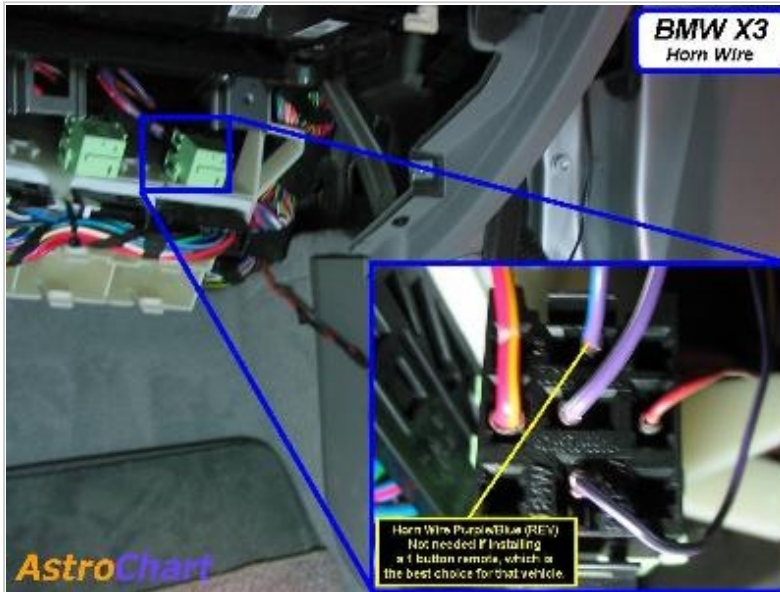
Wiring Photo and Notes: Parking Brake



Notes:

There are currently no notes for this item.

Wiring Photo and Notes: Horn Trigger

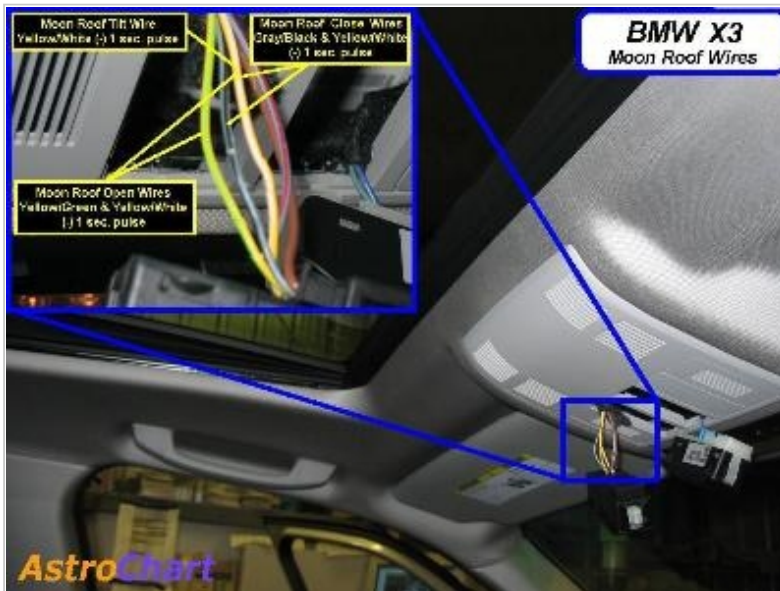


Notes:
There are currently no notes for this item.

Wiring Notes: Wipers

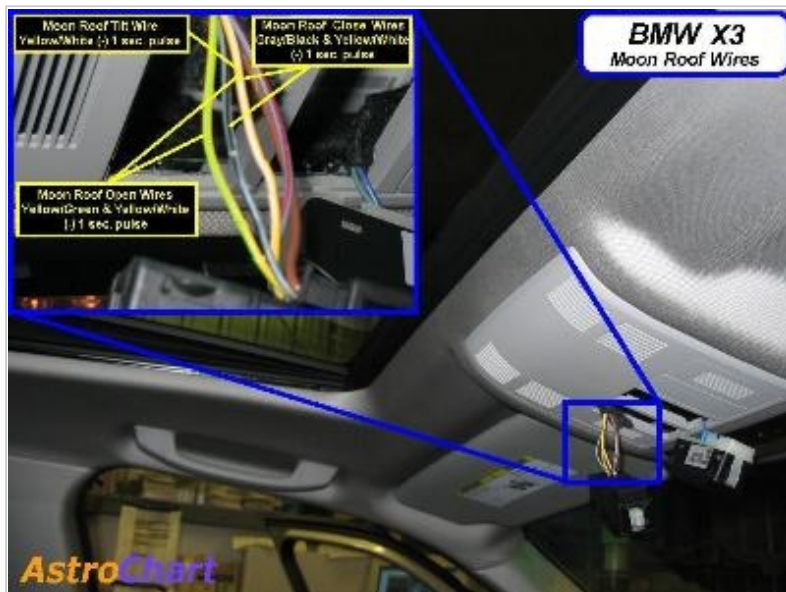
Notes:
The GMCU (General Module Control Unit) is behind the glove box.

Wiring Photo and Notes: Sun Roof (Open/Close)



Notes:
Diode isolate these wires from each other.

Wiring Photo and Notes: Sun Roof (Limit/Close)



Notes:
Diode isolate these wires from each other.

Wiring Notes: Left Front Speaker (+/-)

Notes:
If equipped, the amplifier is in the driver side rear quarter panel. On vehicles with amplifier, the mid-range wires are yellow/red - yellow/brown at the amplifier, 42 pin plug, pins 33 and 34, or 40 and 39. The tweeter wires are blue/black - blue/gray at the amplifier, 42 pin plug, pins 33 and 34.

Wiring Notes: Right Front Speaker (+/-)

Notes:
If equipped, the amplifier is in the driver side rear quarter panel. On vehicles with amplifier, the mid-range wires are blue/red - blue/brown at the amplifier, 42 pin plug, pins 11 and 12, or 42 and 41. The tweeter wires are black/white - black/brown at the amplifier, 42 pin plug, pins 11 and 12.

Wiring Notes: Left Rear Speaker (+/-)

Notes:
If equipped, the amplifier is in the driver side rear quarter panel. On vehicles with amplifier, the mid-range wires are yellow/black - yellow/brown at the amplifier, 42 pin plug, pins 31 and 32. The tweeter wires are blue - brown at the amplifier, 42 pin plug, pins 4 and 3.

Wiring Notes: Right Rear Speaker (+/-)**Notes:**

If equipped, the amplifier is in the driver side rear quarter panel. On vehicles with amplifier, the mid-range wires are yellow/purple - yellow/gray at the amplifier, 42 pin plug, pins 13 and 21. The tweeter wires are gray/yellow - gray/green at the amplifier, 42 pin plug, pins 23 and 22.

Wiring Notes: Subwoofer (+/-)**Notes:**

If equipped, the amplifier is in the driver side rear quarter panel. On some models, the wires are in pins 2 and 1 (L), 25 and 24 (R).



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