

Vehicle Wiring Information
for the
1989 BMW 5 Series (UK)

ITEM	WIRE COLOR	POL	WIRE LOCATION
12V	red/grn & red/blu	+	ignition harness
STARTER	black/blue	+	ignition harness
IGNITION	green	+	ignition harness
SECOND IGNITION	purple	+	ignition harness
POWER LOCK	blue/red	-	54 pin plug, pin #22 @ *1
POWER UNLOCK	white/black *3	-	54 pin plug, pin #20 @ *1
LOCK MOTOR	white (any one of 5)		54 pin plug @ *1
UNLOCK MOTOR	blue		54 pin plug, pin #35 @ *1
DISARM DEFEAT	(chassis ground)		
PARKING LIGHTS	+)*4		
HEADLIGHTS			
DOOR TRIGGER	red/blue	+	54 pin plug, pin #18 @ *1
DOME SUPERVISION	comes on with unlock		
TRUNK/HATCH PIN	white/brown	-	drivers kick panel
HOOD PIN	purple/green	-	26 pin plug, pin #7 @ *1
TRNK/HATCH RELEASE	gray/green	+	54 pin plug, pin #17 @ *1
FACTRY ALARM ARM	arms with lock		
FACTRY ALRM DISARM	disarms with unlock		
TACHOMETER	black		diagnostic plug *2
SPEED SENSE	black/white		radio, pin #10
BRAKE WIRE	brown/white	+	brake pedal switch
HORN TRIGGER	purple/blue	+	horn relay *5
WIPERS			
LF WINDOW UP/DN	*6		
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE	*6		

Notes:

NOTE: This vehicle is equipped with the EWS II immobilizer system that need to be bypassed when adding a remote start. Use DEI module 555B and refer to directfax document #1056 for additional wiring information. *1 The general module is a white box located behind the glove box. The 54 pin plug is the center plug, and the 26 pin plug is the one on the left. *2 The diagnostic plug is on the passengers side of the engine compartment. If the vehicle does not have the diagnostic plug then the black wire can be found at the data link connector under the driver side dash. *3 On some models, unlock may require a double pulse. *4 Need to remove the light switch module from the dash and pop off the front cover. A ribbon cable which connects the switch to the module will be exposed. With the switch facing towards you, you need to interrupt the fourth wire from the left with a relay. When interrupted the parking lights will come on. See directfax document # 1055 for wiring information. *5 The horn relay is above the general module. It is the green relay to the right of an orange relay. *6 Extended triggers on the door lock wires will roll the windows up/down and open/close the sunroof. Use validity channels to control.

Vehicle Wiring Information

for the

1991 BMW 5 Series (UK)

ITEM	WIRE COLOR	POL	WIRE LOCATION
12V			
STARTER	black/yellow		ignition harness
SECOND STARTER			
IGNITION	green *1		ignition harness
SECOND IGNITION			
THIRD IGNITION			
ACCESSORY	violet		ignition harness
SECOND ACCESSORY			
POWER LOCK	pin 7 blu/brn/yel	+	under pass side of rear seat
POWER UNLOCK	pin 16 blu/red/yel	+	under pass side of rear seat
LOCK MOTOR			
UNLOCK MOTOR			
DISARM DEFEAT			
PARKING LIGHTS +	blu/grn & blu/brn		yellow plug in driver kick
PARKING LIGHTS -			
HEADLIGHTS			
DOOR TRIGGER	yellow/blue	-	under rear seat
DOME SUPERVISION			
TRUNK/HATCH PIN	wht/red or brn/wht		at the bootlight
HOOD PIN	purple/green/yellow		30 pin conn under column
TRNK/HATCH RELEASE	brown/white	+	at the switch
FCTRY ALARM ARM			
FCTRY ALRM DISARM			
DISARM NO UNLOCK			
TACHOMETER	black		diagnostic plug under bonnet
SPEED SENSE			
BRAKE WIRE	black/green		brake pedal switch
HORN TRIGGER	blue/black		steering column
WIPERS			
LF WINDOW UP/DN	white/black		
RF WINDOW UP/DN	black/brown		
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE			
SUN ROOF LIMIT			
RADIO 12V			
RADIO GROUND			
RADIO SWITCH			
RADIO ILLUMINATE			
POWER ANTENNA			
LF SPEAKER			
RF SPEAKER			
LR SPEAKER			
RR SPEAKER			

Notes:

*1 Fuel pump wire is a green/violet behind the glove box.

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ITEM	WIRE COLOR	POL	WIRE LOCATION
12V			
STARTER	black/yellow		ignition harness
SECOND STARTER			
IGNITION	green *1		ignition harness
SECOND IGNITION			
THIRD IGNITION			
ACCESSORY	violet		ignition harness
SECOND ACCESSORY			
POWER LOCK	pin 7 blu/brn/yel	+	under pass side of rear seat
POWER UNLOCK	pin 16 blu/red/yel	+	under pass side of rear seat
LOCK MOTOR			
UNLOCK MOTOR			
DISARM DEFEAT			
PARKING LIGHTS +	blu/grn & blu/brn		yellow plug in driver kick
PARKING LIGHTS -			
HEADLIGHTS			
DOOR TRIGGER	yellow/blue	-	under rear seat
DOME SUPERVISION			
TRUNK/HATCH PIN	wht/red or brn/wht		at the bootlight
HOOD PIN	purple/green/yellow		30 pin conn under column
TRNK/HATCH RELEASE	brown/white	+	at the switch
FCTRY ALARM ARM			
FCTRY ALRM DISARM			
DISARM NO UNLOCK			
TACHOMETER	black		diagnostic plug under bonnet
SPEED SENSE			
BRAKE WIRE	black/green		brake pedal switch
HORN TRIGGER	blue/black		steering column
WIPERS			
LF WINDOW UP/DN	white/black		
RF WINDOW UP/DN	black/brown		
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE			
SUN ROOF LIMIT			
RADIO 12V			
RADIO GROUND			
RADIO SWITCH			
RADIO ILLUMINATE			
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IGNITION	green *1		ignition harness
SECOND IGNITION			
THIRD IGNITION			
ACCESSORY	violet		ignition harness
SECOND ACCESSORY			
POWER LOCK	pin 7 blu/brn/yel	+	under pass side of rear seat
POWER UNLOCK	pin 16 blu/red/yel	+	under pass side of rear seat
LOCK MOTOR			
UNLOCK MOTOR			
DISARM DEFEAT			
PARKING LIGHTS +	blu/grn & blu/brn		yellow plug in driver kick
PARKING LIGHTS -			
HEADLIGHTS			
DOOR TRIGGER	yellow/blue	-	under rear seat
DOME SUPERVISION			
TRUNK/HATCH PIN	wht/red or brn/wht		at the bootlight
HOOD PIN	purple/green/yellow		30 pin conn under column
TRNK/HTCH RELEASE	brown/white	+	at the switch
FACTRY ALARM ARM			
FACTRY ALRM DISARM			
DISARM NO UNLOCK			
TACHOMETER	black		diagnostic plug under bonnet
SPEED SENSE			
BRAKE WIRE	black/green		brake pedal switch
HORN TRIGGER	blue/black		steering column
WIPERS			
LF WINDOW UP/DN	white/black		
RF WINDOW UP/DN	black/brown		
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE			
SUN ROOF LIMIT			
RADIO 12V			
RADIO GROUND			
RADIO SWITCH			
RADIO ILLUMINATE			
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IGNITION	green *1		ignition harness
SECOND IGNITION			
THIRD IGNITION			
ACCESSORY	violet		ignition harness
SECOND ACCESSORY			
POWER LOCK	pin 7 blu/brn/yel	+	under pass side of rear seat
POWER UNLOCK	pin 16 blu/red/yel	+	under pass side of rear seat
LOCK MOTOR			
UNLOCK MOTOR			
DISARM DEFEAT			
PARKING LIGHTS +	blu/grn & blu/brn		yellow plug in driver kick
PARKING LIGHTS -			
HEADLIGHTS			
DOOR TRIGGER	yellow/blue	-	under rear seat
DOVE SUPERVISION			
TRUNK/HATCH PIN	wht/red or brn/wht		at the bootlight
HOOD PIN	purple/green/yellow		30 pin conn under column
TRNK/HTCH RELEASE	brown/white	+	at the switch
FCTRY ALARM ARM			
FCTRY ALRM DISARM			
DISARM NO UNLOCK			
TACHOMETER	black		diagnostic plug under bonnet
SPEED SENSE			
BRAKE WIRE	black/green		brake pedal switch
HORN TRIGGER	blue/black		steering column
WIPERS			
LF WINDOW UP/DN	white/black		
RF WINDOW UP/DN	black/brown		
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE			
SUN ROOF LIMIT			
RADIO 12V			
RADIO GROUND			
RADIO SWITCH			
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POWER ANTENNA			
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SECOND ACCESSORY			
POWER LOCK	pin 7 blu/brn/yel	+	under pass side of rear seat
POWER UNLOCK	pin 16 blu/red/yel	+	under pass side of rear seat
LOCK MOTOR			
UNLOCK MOTOR			
DISARM DEFEAT			
PARKING LIGHTS +	blu/grn & blu/brn		yellow plug in driver kick
PARKING LIGHTS -			
HEADLIGHTS			
DOOR TRIGGER	yellow/blue	-	under rear seat
DOME SUPERVISION			
TRUNK/HATCH PIN	wht/red or brn/wht		at the bootlight
HOOD PIN	purple/green/yellow		30 pin conn under column
TRNK/HATCH RELEASE	brown/white	+	at the switch
FACTORY ALARM ARM			
FACTORY ALARM DISARM			
DISARM NO UNLOCK			
TACHOMETER	black		diagnostic plug under bonnet
SPEED SENSE			
BRAKE WIRE	black/green		brake pedal switch
HORN TRIGGER	blue/black		steering column
WIPERS			
LF WINDOW UP/DN	white/black		
RF WINDOW UP/DN	black/brown		
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE			
SUN ROOF LIMIT			
RADIO 12V			
RADIO GROUND			
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SECOND ACCESSORY			
POWER LOCK	pin 7 blu/brn/yel	+	under pass side of rear seat
POWER UNLOCK	pin 16 blu/red/yel	+	under pass side of rear seat
LOCK MOTOR			
UNLOCK MOTOR			
DISARM DEFEAT			
PARKING LIGHTS +	blu/grn & blu/brn		yellow plug in driver kick
PARKING LIGHTS -			
HEADLIGHTS			
DOOR TRIGGER	yellow/blue	-	under rear seat
DOME SUPERVISION			
TRUNK/HATCH PIN	wht/red or brn/wht		at the bootlight
HOOD PIN	purple/green/yellow		30 pin conn under column
TRNK/HATCH RELEASE	brown/white	+	at the switch
FCTRY ALARM ARM			
FCTRY ALRM DISARM			
DISARM NO UNLOCK			
TACHOMETER	black		diagnostic plug under bonnet
SPEED SENSE			
BRAKE WIRE	black/green		brake pedal switch
HORN TRIGGER	blue/black		steering column
WIPERS			
LF WINDOW UP/DN	white/black		
RF WINDOW UP/DN	black/brown		
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE			
SUN ROOF LIMIT			
RADIO 12V			
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RADIO SWITCH			
RADIO ILLUMINATE			
POWER ANTENNA			
LF SPEAKER			
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LR SPEAKER			
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ITEM	WIRE COLOR	POL	WIRE LOCATION
12V	red	+	steering column
STARTER	black	+	steering column
IGNITION	green	+	steering column
ACCESSORY	purple	+	steering column
POWER LOCK	yellow/blue	-	either kick panel *1
POWER UNLOCK	green/blue	-	either kick panel *1
PARKING LIGHTS +	gry/wht & gry/blk		at light switch
PARKING LIGHTS -			
HEADLIGHTS	yellow/white	+	at light switch
DOOR TRIGGER	brown/purple	-	any pin or light timer *2
TRUNK/HATCH PIN	brown/black	-	sw. or light in trunk
HOOD PIN			
TACHOMETER	black		at coil
BRAKE WIRE	green/red	+	brake pedal switch
HORN TRIGGER	purple/yellow	+	at horns or horn relay
WIPERS			
LF WINDOW UP/DN	blue - black	A	center console switch
RF WINDOW UP/DN	blue - black	A	center console switch
LR WINDOW UP/DN	blu/grn - blk/yel	A	center console switch
RR WINDOW UP/DN	blu/grn - blk/yel	A	center console switch

Notes:

*1 Module located above right front speaker. DO NOT operate locks by remote with doors open or deadbolted to prevent possible damage to servos. *2 Dome light timer located under left side of dash to left of steering column.

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ITEM	WIRE COLOR	POL	WIRE LOCATION
12V	red	+	steering column
STARTER	black/yellow	+	steering column
IGNITION	green	+	steering column
ACCESSORY	purple	+	steering column
POWER LOCK	white/red/yel dots	+	driver kick panel *1
POWER UNLOCK	blue/brown/yel dots	+	driver kick panel *1
PARKING LIGHTS +	gry/purple, gry/yel		at light switch
PARKING LIGHTS -			
HEADLIGHTS	yellow	+	at light switch
DOOR TRIGGER	br/gry, br/blu, br/ppl	-	anti-theft module *3
TRUNK/HATCH PIN	red/white	+	harness to trunk
HOOD PIN			
FCTRY ALARM ARM			
FCTRY ALRM DISARM			
TACHOMETER	black		at diagnostic conn. *2
BRAKE WIRE	blue/red	+	brake pedal switch
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN			
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			

Notes:

*1 Do not operate locks by remote with doors open or deadbolted to prevent possible damage to servos. *2 Round plug with screw-on cover at pass. shock tower or by fusebox on driver's side. *3 Anti-theft plug or module located under rear seat on passenger side. Door wires also found at general module under rear seat on driver's side. Be careful handling this module, as rotating it can cause underseat grommets to suck out, allowing eventual water damage to the electrical system. Domelight supervision (combined) wire yellow/blue in large harness by general module (usually in front).

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ITEM	WIRE COLOR	POL	WIRE LOCATION
12V	red	+	steering column
STARTER	black/yellow	+	steering column
IGNITION	green	+	steering column
ACCESSORY	purple	+	steering column
POWER LOCK	white/red/yel dots	+	driver kick panel *1
POWER UNLOCK	blue/brown/yel dots	+	driver kick panel *1
PARKING LIGHTS +	gry/purple,gry/yel		at light switch
PARKING LIGHTS -			
HEADLIGHTS	yellow	+	at light switch
DOOR TRIGGER	br/gry,br/blu,br/ppl	-	anti-theft module *3
TRUNK/HATCH PIN	red/white	+	harness to trunk
HOOD PIN			
FCTRY ALARM ARM			
FCTRY ALRM DISARM			
TACHOMETER	black		at diagnostic conn. *2
BRAKE WIRE	blue/red	+	brake pedal switch
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN			
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			

Notes:

*1 Do not operate locks by remote with doors open or deadbolted to prevent possible damage to servos. *2 Round plug with screw-on cover at pass. shock tower or by fusebox on driver's side. *3 Anti-theft plug or module located under rear seat on passenger side. Door wires also found at general module under rear seat on driver's side. Be careful handling this module, as rotating it can cause underseat grommets to suck out, allowing eventual water damage to the electrical system. Domelight supervision (combined) wire yellow/blue in large harness by general module (usually in front).

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12V	red	+	steering column
STARTER	black/yellow	+	steering column
IGNITION	green	+	steering column
ACCESSORY	purple	+	steering column
POWER LOCK	white/red/yel dots	+	driver kick panel *1
POWER UNLOCK	blue/brown/yel dots	+	driver kick panel *1
PARKING LIGHTS +	gry/purple,gry/yel	+	at light switch
PARKING LIGHTS -		-	
HEADLIGHTS	yellow	+	at light switch
DOOR TRIGGER	br/gry,br/blu,br/ppl	-	anti-theft module *3
TRUNK/HATCH PIN	red/white	+	harness to trunk
HOOD PIN			
FACTRY ALARM ARM			
FACTRY ALRM DISARM			
TACHOMETER	black		at diagnostic conn. *2
BRAKE WIRE	blue/red	+	brake pedal switch
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN			
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			

Notes:
 *1 Do not operate locks by remote with doors open or deadbolted to prevent possible damage to servos. *2 Round plug with screw-on cover at pass. shock tower or by fusebox on driver's side. *3 Anti-theft plug or module located under rear seat on passenger side. Door wires also found at general module under rear seat on driver's side. Be careful handling this module, as rotating it can cause underseat grommets to suck out, allowing eventual water damage to the electrical system. Domelight supervision (combined) wire yellow/blue in large harness by general module (usually in front).

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ITEM	WIRE COLOR	POL	WIRE LOCATION
12V	red	+	steering column
STARTER	black/yellow	+	steering column
IGNITION	green	+	steering column
ACCESSORY	purple	+	steering column
POWER LOCK	white/red/yel *1	+	anti-theft plug *3
POWER UNLOCK	blue/red/yel *1	+	anti-theft plug *3
PARKING LIGHTS +	gry/purple, gry/yel		at light switch
PARKING LIGHTS -			
HEADLIGHTS	yellow	+	at light switch
DOOR TRIGGER	br/gry, br/blu, br/ppl	-	anti-theft plug *3
TRUNK/HATCH PIN	red/white	+	anti-theft plug *3
HOOD PIN			
FACTORY ALARM ARM			
FACTORY ALRM DISARM			
TACHOMETER	black		at diagnostic conn. *2
BRAKE WIRE	blue/red	+	brake pedal switch
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN			
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			

Notes:

*1 Do not operate locks by remote with door open or deadbolted to prevent possible damage to servos. *2 Round plug with screw-on cover at pass. shock tower or by fusebox on driver's side. *3 Anti-theft plug or module located under rear seat on passenger side. Door wires also found at general module under rear seat on driver's side. Be careful handling this module, as rotating it can cause underseat grommets to suck out, allowing eventual water damage to the electrical system. Domelight supervision wire brown/red at anti-theft plug.

Vehicle Wiring Information
for the
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ITEM	WIRE COLOR	POL	WIRE LOCATION
12V	red	+	steering column
STARTER	black/yellow	+	steering column
IGNITION	green	+	steering column
ACCESSORY	purple	+	steering column
POWER LOCK	white/red/yel *1	+	anti-theft plug *3
POWER UNLOCK	blue/red/yel *1	+	anti-theft plug *3
PARKING LIGHTS +	gry/purple, gry/yel		at light switch
PARKING LIGHTS -			
HEADLIGHTS	yellow	+	at light switch
DOOR TRIGGER	br/gry, br/blu, br/ppl	-	anti-theft plug *3
TRUNK/HATCH PIN	red/white	+	anti-theft plug *3
HOOD PIN			
FACTORY ALARM ARM			
FACTORY ALRM DISARM			
TACHOMETER	black		at diagnostic conn. *2
BRAKE WIRE	blue/red	+	brake pedal switch
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN			
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			

Notes:
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12V	red	+	steering column
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IGNITION	green	+	steering column
SECOND IGNITION	purple	+	steering column
POWER LOCK	white/red/yel dots	+	anti-theft plug *2
POWER UNLOCK	blue/red/yel dots	+	anti-theft plug *2
PARKING LIGHTS +	gry/purple,gry/yel		at light switch
PARKING LIGHTS -			
HEADLIGHTS	yellow	+	at light switch
DOOR TRIGGER	br/gry,br/blu,br/ppl	-	anti-theft plug *3
TRUNK/HATCH PIN	red/white	+	harness to trunk *4
HOOD PIN			
FACTRY ALARM ARM			
FACTRY ALRM DISARM			
TACHOMETER	black		at diagnostic conn. *1
BRAKE WIRE	blue/red	+	brake pedal switch
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN			
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			

Notes:

*1 Round plug with screw-on cover at pass. shock tower or by fusebox on driver's side. *2 Anti-theft plug or module located under rear seat on passenger side, next to battery. Unlock may also be blue/brown/yel dots. Lock wires were available in previous years in driver's kick panel, but may be difficult to locate there for 94. These lock wires do not change state when the locks are operated, so they are difficult to test (they are intended for an optional remote-control keyless entry system). Be very sure of location before using these wires! Do not operate locks by remote when doors are open or deadbolted to prevent possible damage to servos. *3 These three are (in order) dr F, pass F, both R. Combine with diodes. The only combined wire is affected by domelight supervision and also shuts off after the door is open too long. Low-current domelight supervision is possible on any of these pinswitch wires. *4 Also find trunk or rear hatch trigger at factory alarm plug by battery under passenger side rear seat.

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12V	red	+	steering column
STARTER	black/yellow	+	steering column
IGNITION	green	+	steering column
SECOND IGNITION	purple	+	steering column
POWER LOCK	white/red/yel dots	+	anti-theft plug *2
POWER UNLOCK	blue/red/yel dots	+	anti-theft plug *2
PARKING LIGHTS +	gry/purple,gry/yel		at light switch
PARKING LIGHTS -			
HEADLIGHTS	yellow	+	at light switch
DOOR TRIGGER	br/gry,br/blu,br/ppl	-	anti-theft plug *3
TRUNK/HATCH PIN	red/white	+	harness to trunk *4
HOOD PIN			
FACTRY ALARM ARM			
FACTRY ALRM DISARM			
TACHOMETER	black		at diagnostic conn. *1
BRAKE WIRE	blue/red	+	brake pedal switch
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN			
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			

Notes:

NOTE: This vehicle is equipped with the EWS II immobilizer system that need to be bypassed when adding a remote start. Use DEI module 555B. *1 Round plug with screw-on cover at pass. shock tower or by fusebox on driver's side. *2 Anti-theft plug or module located under rear seat on passenger side, next to battery. Unlock may also be blue/brown/yel dots. Lock wires were available in previous years in driver's kick panel, but may be difficult to locate there for 94. These lock wires do not change state when the locks are operated, so they are difficult to test (they are intended for an optional remote-control keyless entry system). Be very sure of location before using these wires! Do not operate locks by remote when doors are open or deadbolted to prevent possible damage to servos. *3 These three are (in order) dr F, pass F, both R. Combine with diodes. The only combined wire is affected by domelight supervision and also shuts off after the door is open too long. Low-current domelight supervision is possible on any of these pinswitch wires. *4 Also find trunk or rear hatch trigger at factory alarm plug by battery under passenger side rear seat.

Vehicle Wiring Information

for the

1996 BMW 5 Series

ITEM	WIRE COLOR	POL	WIRE LOCATION
12V	red	+	steering column
STARTER	black/yellow	+	steering column
IGNITION	green	+	steering column
SECOND IGNITION	purple	+	steering column
POWER LOCK	white/red/yel dots	+	anti-theft plug *2
POWER UNLOCK	blue/red/yel dots	+	anti-theft plug *2
PARKING LIGHTS +	gry/purple, gry/yel		at light switch
PARKING LIGHTS -			
HEADLIGHTS	yellow	+	at light switch
DOOR TRIGGER	br/gry, br/blu, br/ppl	-	anti-theft plug *3
TRUNK/HATCH PIN	red/white	+	harness to trunk *4
HOOD PIN			
FCTRY ALARM ARM			
FCTRY ALRM DISARM			
TACHOMETER	black		at diagnostic conn. *1
BRAKE WIRE	blue/red	+	brake pedal switch
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN			
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			

Notes:

NOTE: This vehicle is equipped with the EWS II immobilizer system that need to be bypassed when adding a remote start. Use DEI module 555E. *1 Round plug with screw-on cover at pass. shock tower or by fusebox on driver's side. *2 Anti-theft plug or module located under rear seat on passenger side, next to battery. Unlock may also be blue/brown/yel dots. Lock wires were available in previous years in driver's kick panel, but may be difficult to locate there for 94. These lock wires do not change state when the locks are operated, so they are difficult to test (they are intended for an optional remote-control keyless entry system). Be very sure of location before using these wires! Do not operate locks by remote when doors are open or deadbolted to prevent possible damage to servos. *3 These three are (in order) dr F, pass F, both R. Combine with diodes. The only combined wire is affected by domelight supervision and also shuts off after the door is open too long. Low-current domelight supervision is possible on any of these pinswitch wires. *4 Also find trunk or rear hatch trigger at factory alarm plug by battery under passenger side rear seat.

Vehicle Wiring Information

for the

1997 BMW 5 Series

ITEM	WIRE COLOR	POL	WIRE LOCATION
12V	red	+	ignition harness
STARTER	black/yellow	+	ignition harness
IGNITION	green (x3)	+	ignition harness
SECOND IGNITION	purple	+	ignition harness
POWER LOCK	blue/red	+	door module in driver door
POWER UNLOCK	black/white *1	+	door module in driver door
LOCK MOTOR			
UNLOCK MOTOR			
DISARM DEFEAT			
PARKING LIGHTS	black *2		headlight switch
HEADLIGHTS			
DOOR TRIGGER	blue/red	+	dome light
DOME SUPERVISION	comes on with unlock		
TRUNK/HATCH PIN	brown/white	-	trunk pin
HOOD PIN			
TRNK/HATCH RELEASE	gray/black	-	release switch
FCTRY ALARM ARM	arms with lock		
FCTRY ALRM DISARM	disarms with unlock		
TACHOMETER	black		round diag. plug under hood
SPEED SENSE			
BRAKE WIRE	brown/gray	+	brake pedal switch
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN	*3		
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE	*3		

Notes:

NOTE: This vehicle is equipped with the EWS II immobilizer system that need to be bypassed when adding a remote start. Use DEI module 555B and refer to directfax document #1056 for additional wiring information. *1 Unlock requires a double pulse. *2 Cutting this wire turns on the parking lights. Use a relay to interupt the wire to flash the parking lights. See directfax document # 1055 for wiring information. *3 Extended triggers on the door lock wires will roll the windows up/down and open/close the sunroof. Use validity channels to control.

Vehicle Wiring Information
for the
1998 BMW 5 Series

ITEM	WIRE COLOR	POL	WIRE LOCATION
12V	red	+	ignition harness
STARTER	black/yellow	+	ignition harness
IGNITION	green (x3)	+	ignition harness
SECOND IGNITION	purple	+	ignition harness
POWER LOCK	blue/red	+	door module in driver door
POWER UNLOCK	black/white *1	+	door module in driver door
LOCK MOTOR			
UNLOCK MOTOR			
DISARM DEFEAT			
PARKING LIGHTS	black *2		headlight switch
HEADLIGHTS			
DOOR TRIGGER	blue/red	+	dome light
DOME SUPERVISION	comes on with unlock		
TRUNK/HATCH PIN	brown/white	-	trunk pin
HOOD PIN			
TRNK/HATCH RELEASE	gray/black	-	release switch
FCTRY ALARM ARM	arms with lock		
FCTRY ALRM DISARM	disarms with unlock		
TACHOMETER	black		round diag. plug under hood
SPEED SENSE			
BRAKE WIRE	brown/gray	+	brake pedal switch
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN	*3		
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE	*3		

Notes:

NOTE: This vehicle is equipped with the EWS II immobilizer system that need to be bypassed when adding a remote start. Use DEI module 555B and refer to directfax document #1056 for additional wiring information. *1 Unlock requires a double pulse. *2 Cutting this wire turns on the parking lights. Use a relay to interupt the wire to flash the parking lights. See directfax document # 1055 for wiring information. *3 Extended triggers on the door lock wires will roll the windows up/down and open/close the sunroof. Use validity channels to control.

Vehicle Wiring Information
for the
1999 BMW 5 Series

ITEM	WIRE COLOR	POL	WIRE LOCATION
12V	red	+	ignition harness
STARTER	black/yellow	+	ignition harness
IGNITION	green (x3)	+	ignition harness
SECOND IGNITION	purple	+	ignition harness
POWER LOCK	blue/red	+	door module in driver door
POWER UNLOCK	black/white *1	+	door module in driver door
LOCK MOTOR			
UNLOCK MOTOR			
DISARM DEFEAT			
PARKING LIGHTS	black *2		headlight switch
HEADLIGHTS			
DOOR TRIGGER	blue/red	+	dome light
DOME SUPERVISION	comes on with unlock		
TRUNK/HATCH PIN	brown/white	-	trunk pin
HOOD PIN			
TRNK/HTCH RELEASE	gray/black	-	release switch
FCTRY ALARM ARM	arms with lock		
FCTRY ALRM DISARM	disarms with unlock		
TACHOMETER	black		round diag. plug under hood
SPEED SENSE			
BRAKE WIRE	brown/gray	+	brake pedal switch
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN	*3		
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE	*3		

Notes:

NOTE: This vehicle is equipped with the EWS II immobilizer system that need to be bypassed when adding a remote start. Use DEI module 555B and refer to directfax document #1056 for additional wiring information. *1 Unlock requires a double pulse. *2 Cutting this wire turns on the parking lights. Use a relay to interupt the wire to flash the parking lights. See directfax document # 1055 for wiring information. *3 Extended triggers on the door lock wires will roll the windows up/down and open/close the sunroof. Use validity channels to control.

Vehicle Wiring Information
for the
2000 BMW 5 Series

ITEM	WIRE COLOR	POL	WIRE LOCATION
12V	red	+	ignition harness
STARTER	black/yellow	+	ignition harness
IGNITION	green (x3)	+	ignition harness
SECOND IGNITION	purple	+	ignition harness
POWER LOCK	blue/red	+	door module in driver door
POWER UNLOCK	black/white *1	+	door module in driver door
LOCK MOTOR			
UNLOCK MOTOR			
DISARM DEFEAT			
PARKING LIGHTS +	black *2		headlight switch
HEADLIGHTS			
DOOR TRIGGER	blue/red	+	dome light
DOME SUPERVISION	comes on with unlock		
TRUNK/HATCH PIN	brown/white	-	trunk pin
HOOD PIN			
TRNK/HTCH RELEASE	gray/black	-	release switch
FCTRY ALARM ARM	arms with lock		
FCTRY ALRM DISARM	disarms with unlock		
TACHOMETER	black		round diag. plug under hood
SPEED SENSE			
BRAKE WIRE	brown/gray	+	brake pedal switch
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN	*3		
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE	*3		

Notes:

NOTE: This vehicle is equipped with the EWS II immobilizer system that need to be bypassed when adding a remote start. Use DEI module 555B and refer to directfax document #1056 for additional wiring information. *1 Unlock requires a double pulse. *2 Cutting this wire turns on the parking lights. Use a relay to interupt the wire to flash the parking lights. See directfax document # 1055 for wiring information. *3 Extended triggers on the door lock wires will roll the windows up/down and open/close the sunroof. Use validity channels to control.

Vehicle Wiring Information
for the
1996 BMW 5 Series E39 (UK)

ITEM	WIRE COLOR	POL	WIRE LOCATION
12V			
STARTER	black/yellow		ignition harness
SECOND STARTER			
IGNITION	green *1		ignition harness
SECOND IGNITION			
THIRD IGNITION			
ACCESSORY	violet		ignition harness
SECOND ACCESSORY			
POWER LOCK	blue/red	+	in driver door
POWER UNLOCK	black/white	+	in driver door
LOCK MOTOR			
UNLOCK MOTOR			
DISARM DEFEAT			
PARKING LIGHTS +	blu/grn & blu/brn		pass kick at multiplex modul
PARKING LIGHTS -			
HEADLIGHTS			
DOOR TRIGGER	blue/red	+	interior light
DOVE SUPERVISION			
TRUNK/HATCH PIN	brown/white	-	at boot module in boot
HOOD PIN			
TRNK/HATCH RELEASE			
FACTRY ALARM ARM			
FACTRY ALRM DISARM			
DISARM NO UNLOCK			
TACHOMETER	pin 1 black		diagnostic plug under bonnet
SPEED SENSE			
BRAKE WIRE			
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN	*2		
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE			
SUN ROOF LIMIT			
RADIO 12V			
RADIO GROUND			
RADIO SWITCH			
RADIO ILLUMINATE			
POWER ANTENNA			
LF SPEAKER			
RF SPEAKER			
LR SPEAKER			
RR SPEAKER			

Notes:

*1 Diesel vehicle immobilisation cut pin 14, green wire, at the fusebox. *2 The lock and unlock wires also double up as total close and total open. Extend pulse on either to open or

Vehicle Wiring Information
for the
1997 BMW 5 Series E39 (UK)

ITEM	WIRE COLOR	POL	WIRE LOCATION
12V			
STARTER	black/yellow		ignition harness
SECOND STARTER			
IGNITION	green *1		ignition harness
SECOND IGNITION			
THIRD IGNITION			
ACCESSORY	violet		ignition harness
SECOND ACCESSORY			
POWER LOCK	blue/red	+	in driver door
POWER UNLOCK	black/white	+	in driver door
LOCK MOTOR			
UNLOCK MOTOR			
DISARM DEFEAT			
PARKING LIGHTS +	blu/grn & blu/brn		pass kick at multiplex modul
PARKING LIGHTS -			
HEADLIGHTS			
DOOR TRIGGER	blue/red	+	interior light
DOVE SUPERVISION			
TRUNK/HATCH PIN	brown/white	-	at boot module in boot
HOOD PIN			
TRNK/HATCH RELEASE			
FACTRY ALARM ARM			
FACTRY ALRM DISARM			
DISARM NO UNLOCK			
TACHOMETER	pin 1 black		diagnostic plug under bonnet
SPEED SENSE			
BRAKE WIRE			
HORN TRIGGER			
WIPERS			
LF WINDOW UP/DN	*2		
RF WINDOW UP/DN			
LR WINDOW UP/DN			
RR WINDOW UP/DN			
SUN RF OPN/CLOSE			
SUN ROOF LIMIT			
RADIO 12V			
RADIO GROUND			
RADIO SWITCH			
RADIO ILLUMINATE			
POWER ANTENNA			
LF SPEAKER			
RF SPEAKER			
LR SPEAKER			
RR SPEAKER			

Notes:

*1 Diesel vehicle immobilisation cut pin 14, green wire, at the fusebox. *2 The lock and unlock wires also double up as total close and total open. Extend pulse on either to open or