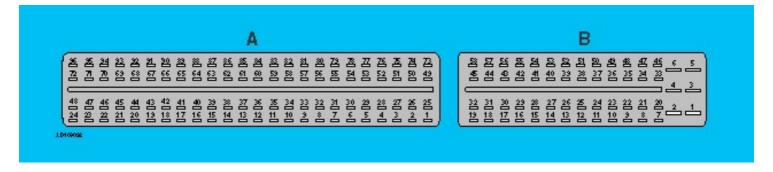
R22 ABS wheel speed sensor, right rear K143 AC compressor clutch relay Accelerator pedal position (APP) sensor 31 Battery - 30 Battery + 113 Bratery - 214 Camshaft position (BPP) switch Will Camshaft position (CMP) actuator Will Camshaft position (CMP) sensor Will Data link connector (DLC)	A16	ABS control module			
K143 Ac compressor clutch relay B138 Accelerator pedal position (APP) sensor 30 Battery + 31 Batke pedal position (BPP) switch 421 Camshaft position (CMP) actuator B132 Camshaft position (CMP) sensor S258 Clutch pedal position (CMP) sensor S258 Clutch pedal position (CMP) sensor S258 Clutch pedal position (CMP) sensor X1 Data link connector (DLC) A35 Engine control module (ECM) K46 Engine control module (ECM) K46 Engine control telay M6 Engine coolant blower motor B187 Engine coolant blower motor temperature sensor B24 Engine coolant blower motor temperature sensor B25 Engine coolant thermostat B166 Engine colant thermostat B166 Engine ol temperature sensor V104 Evaporative emission (EVAP) canister purge valve V141 Exhaust gas control solenoid M12 Fuel pump F Fuse F Fuse F Fuse B3 Headlamp switch Headlamp switch Headlamp switch I Ignition switch - ignition ON A162 Immobilizer control module Injector relay Injector relay Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump relay M89 Knock sensor (KS) M89 Throttle position motor M89 Throttle position motor M89 Throttle position motor M89 Transmission control module (TCM)					
B138 Accelerator pedal position (APP) sensor 31 Battery - S13 Brake pedal position (BPP) switch S13 Brake pedal position (CMP) seutuator S258 Clutch pedal position (CMP) sensor S258 Clutch pedal position (CMP) sensor S258 Clutch pedal position (CPP) switch S34 Crankshaft position (CPP) switch S35 Engine control module (ECM) A36 Engine control module (ECM) A37 Engine coolant blower motor B187 Engine coolant blower motor temperature sensor B284 Engine coolant themperature (ECT) sensor R96 Engine coolant thermostat B156 Engine oil temperature sensor Y104 Evaporative emission (EVAP) canister purge valve Y141 Exhaust gas control solenoid F142 Full pump K20 Fuel pump relay F Fuse S3 Headlamp switch B72 Heated oxygen sensor (HO2S) Idel air control (IAC) valve T1 Ignition switch - Ignition ON A162 Immobilizer control module Immobilizer control module Immobilizer control module Instrument panel Intake air itemperature (IAT) sensor M73 Secondary air injection (AIR) pump relay Throttle position motor K36 Steering wheel multifunction switch M89 Throttle position motor Tansmission control module Total panel Throttle position motor Tansmission control module (TCM) Transmission control module (TCM)					
31 Battery - 30 Battery - 313 Brake pedal position (BPP) switch 313 Brake pedal position (CMP) actuator B132 Camshaft position (CMP) sensor 25268 Clutch pedal position (CFP) switch B54 Crankshaft position (CFP) switch B54 Crankshaft position (CFP) switch B55 Crankshaft position (CFP) switch B56 Crankshaft position (CFP) switch B57 Crankshaft position (CFP) switch B58 Crankshaft position (CFP) switch B59 Crankshaft position (CFP) switch B50 Crankshaft position (CFP) switch B51 Crankshaft position (CFP) B51 Crankshaft position (CFP) B52 Engine control relay B53 Engine coolant blower motor B54 Engine coolant blower motor temperature sensor B54 Engine coolant temperature (ECT) sensor B56 Engine coolant themperature (ECT) sensor B57 Engine coolant temperature sensor B57 Engine coolant temperature sensor B57 Engine coolant temperature sensor B57 Fuse B58 Engine coolant temperature sensor B59 Engine collant temperature sensor B50 Engine collant temperature sensor B51 Engine collant temperature sensor B52 Engine control sensor B53 Haddamp switch B54 Engine collant temperature sensor B55 Engine control module B56 Engine collant temperature sensor B57 Engine control module B57 Engine control module B58 Engine control module B59 Engine control module B50 Engine control module B50 Engine control module B51 Engine control module B52 Entake air temperature sensor B53 Engine control module B53 Engine control module B57 Engine control module sensor B58 Engine control module sensor B59 Engine control module sensor B50 Engine control module sensor B51 Engine					
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B187 Engine coolant blower motor temperature sensor B24 Engine coolant temperature (ECT) sensor R96 Engine coolant temperature sensor B156 Engine oil temperature sensor Y104 Evaporative emission (EVAP) canister purge valve Y141 Exhaust gas control solenoid M12 Fuel pump K20 Fuel pump relay F Isus S3 Headlamp switch B72 Heated oxygen sensor (HO2S) Idle air control (IAC) valve T1 Ignition coil S1 Ignition switch I5 Ignition switch I5 Ignition switch injector elay Injector K251 Injector relay Instrument panel B25 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid B89 Knock sensor (KS) B30 Mass air flow (MAF) sensor M33 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module Transmission control module Transmission control module					
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B156 Engine oil temperature sensor Y104 Evaporative emission (EVAP) canister purge valve Y141 Exhaust gas control solenoid M12 Fuel pump K20 Fuel pump relay F Fuse S3 Headlamp switch B72 Heated oxygen sensor (HO2S) Y99 Idle air control (IAC) valve T1 Ignition coil S1 Ignition switch I5 Ignition switch I6 Ignition switch I7 Injector I7 Injector I7 Injector I7 Injector I7 Injector I7 Instrument panel I85 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid I869 Knock sensor (KS) I830 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S265 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module (TCM)					
Y104 Evaporative emission (EVAP) canister purge valve Y141 Exhaust gas control solenoid M12 Fuel pump K20 Fuel pump relay F Fuse S3 Headlamp switch B72 Heated oxygen sensor (HO2S) Y99 Idle air control (IAC) valve T1 Ignition coil S1 Ignition switch 15 Ignition switch 15 Ignition switch - ignition ON A162 Immobilizer control module Y3 Injector K251 Injector relay A5 Instrument panel B25 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid B69 Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module (TCM)					
Y141 Exhaust gas control solenoid M12 Fuel pump K20 Fuel pump relay F Fuse S3 Headlamp switch B72 Heated oxygen sensor (HO2S) Y99 Idle air control (IAC) valve T1 Ignition coil S1 Ignition switch 15 Ignition switch - ignition ON A162 Immobilizer control module Y3 Injector K251 Injector relay A5 Instrument panel B25 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid B69 Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module (TCM)					
M12 Fuel pump K20 Fuel pump relay F Fuse S3 Headlamp switch B72 Heated oxygen sensor (HO2S) Y99 Idle air control (IAC) valve T1 Ignition coil S1 Ignition switch 15 Ignition switch 16 Immobilizer control module Y3 Injector K251 Injector relay A5 Instrument panel B25 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid B69 Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)					
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Headlamp switch B72 Heated oxygen sensor (HO2S) Y99 Idle air control (IAC) valve T1 Ignition coil S1 Ignition switch 15 Ignition switch - ignition ON A162 Immobilizer control module Y3 Injector K251 Injector relay A5 Instrument panel B25 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	K20				
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T1 Ignition coil S1 Ignition switch 15 Ignition switch - ignition ON A162 Immobilizer control module Y3 Injector K251 Injector relay A5 Instrument panel B25 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid B69 Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	B72	Heated oxygen sensor (HO2S)			
Ignition switch Injector	Y99	Idle air control (IAC) valve			
Ignition switch - ignition ON A162 Immobilizer control module Y3 Injector K251 Injector relay A5 Instrument panel B25 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid B69 Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	T1	Ignition coil			
A162 Immobilizer control module Y3 Injector K251 Injector relay A5 Instrument panel B25 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid B69 Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	S1	Ignition switch			
Y3 Injector K251 Injector relay A5 Instrument panel B25 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid B69 Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	15	Ignition switch - ignition ON			
K251 Injector relay A5 Instrument panel B25 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid B69 Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	A162	Immobilizer control module			
A5 Instrument panel B25 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid B69 Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	Y3	Injector			
B25 Intake air temperature (IAT) sensor Y102 Intake manifold air control solenoid B69 Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	K251	Injector relay			
Y102 Intake manifold air control solenoid B69 Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	A5	Instrument panel			
B69 Knock sensor (KS) B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	B25	Intake air temperature (IAT) sensor			
B30 Mass air flow (MAF) sensor M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	Y102	Intake manifold air control solenoid			
M73 Secondary air injection (AIR) pump K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	B69	Knock sensor (KS)			
K152 Secondary air injection (AIR) pump relay Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	B30	Mass air flow (MAF) sensor			
Y111 Secondary air injection (AIR) solenoid S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	M73	Secondary air injection (AIR) pump			
S365 Steering wheel multifunction switch M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	K152	Secondary air injection (AIR) pump relay			
M89 Throttle position motor A61 Traction control module A57 Transmission control module (TCM)	Y111				
A61 Traction control module A57 Transmission control module (TCM)					
A57 Transmission control module (TCM)	M89	Throttle position motor			
	A61	Traction control module			
15 Under LH front seat, under carpet					
	15	Under LH front seat, under carpet			

Manufacturer: BMW Engine code: 22 6S 1 Tuned for: R-Cat

Model: 3 Series (E46) 2,2 320i **Output:** 125 (170) 6250

Year: 2000-07

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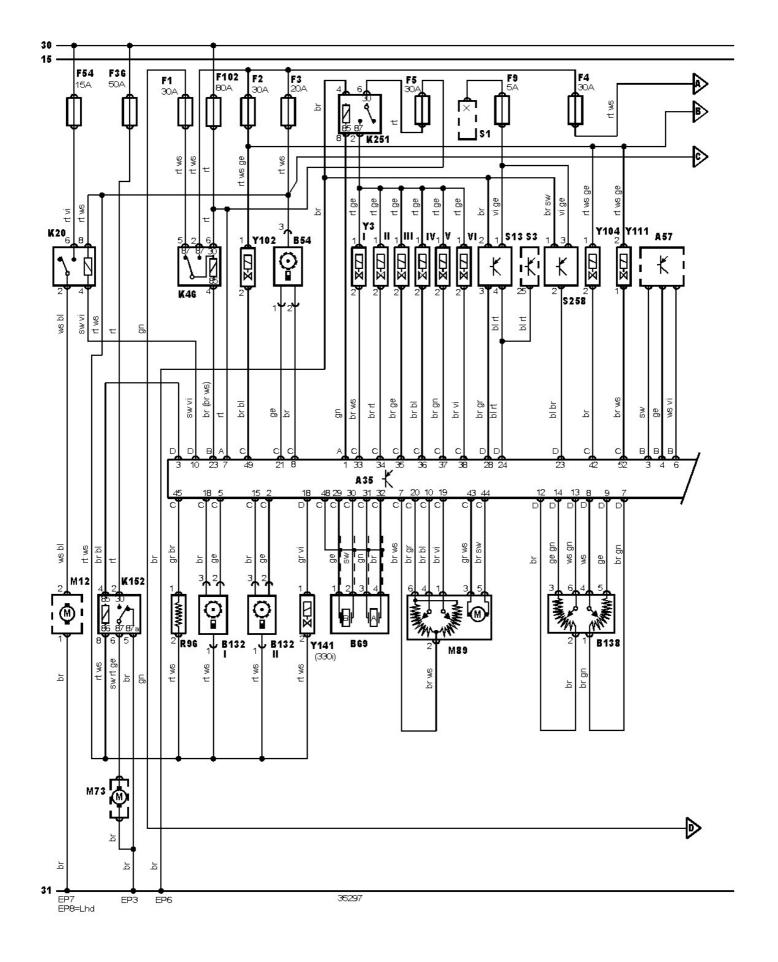
bl = blue	br = brown	el = cream	ge = yellow
gn = green	gr = grey	nf = neutral	og = orange
rs = pink	rt = red	sw = black	vi = violet
ws = white	hbl = light blue	hgn = light green	rbr = maroon
x = braided cable	y = high tension	z = non-cable connection	

NOTE: In certain diagrams (Citroen, Peugeot & Renault), colour codes are replaced by numbers which are used to identify a particular cable and not the colour. In this instance, the cables will be numbered at each end close to the harness connector.

 Manufacturer:
 BMW
 Model:
 3 Series (E46) 2,2 320i
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 Engine code:
 22 6S 1
 Output:
 125 (170) 6250
 Valid forever.
 17.10.2020

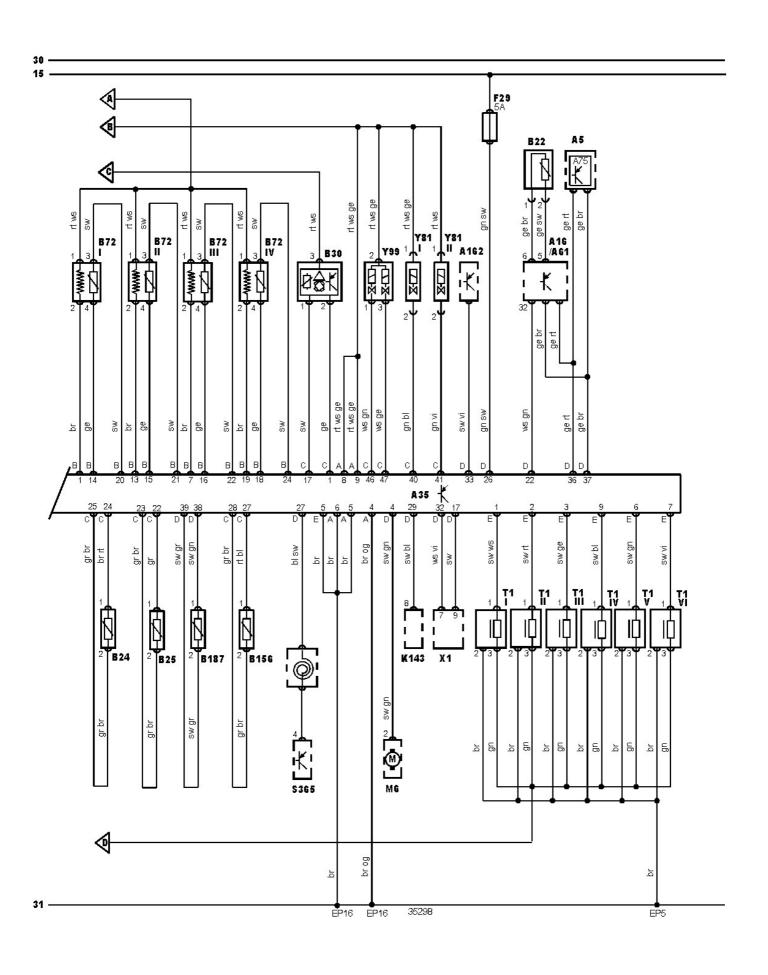
 Tuned for:
 R-Cat
 Year:
 2000-07
 V8.500 /Autodata



Manufacturer: BMW Engine code: 22 6S 1 Tuned for: R-Cat Model: 3 Series (E46) 2,2 320i Output: 125 (170) 6250 Year: 2000-07 © Autodata Limited 2010

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V8 500- / Autodata



Manufacturer: BMW Engine code: 22 6S 1 Tuned for: R-Cat **Model:** 3 Series (E46) 2,2 320i **Output:** 125 (170) 6250

Year: 2000-07

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