88 E30	8 E30 M3 Engine Hamess (late 87 build)				
	(car side wire color	engine side wire color	description	
1	alternator	blue	blue	wire from alternator back to instrument cluster, function identical between e30 and e36	
2	oil level sensor pin 1 (static)	blue/yellow	white	can be connected separately to oil level sensor on 525i oil pan	
3					
	coolant temp sender	brown/violet	brown/white	signal from engine coolant temp sensor to instrument cluster, use coolant temp sender from e30 m3 (1 710 511)	
	oil pressure	black/brown	brown/green	signal from engine oil pressure sensor to instrument cluster	
	o2 sensor relay	green/yellow	yellow/blue & green/yellow	brings +12V from fuse #9 to o2 sensor heater relay contact (not the coil), dme controls relay, e36 o2 sensor relay gets power from e36 harness	
	ignition	green	green	car provides +12V on this with the ignition on	
8					
9					
	oil level sensor pin 2 (dynamic) service interval reset	violet/green	yellow	can be connected separately to oil level sensor on 525i oil pan	
12		white/blue	white/blue	signal from diag connector to instrument cluster, has no function related to engine management	
	fuel pump relay	violet/red	green/violet	+12V from engine harness side relay to fuel pump, dme controls fuel pump relay	
14				122 This organization of the following of the participation for participation of the particip	
15					
	rxd - pin 6 of diag conn	black/white	white/black	no use that I am aware of - ignore	
17				×	
18	starter	black/yellow	black/yellow	car provides +12V on this wire with starter engaged	
	oil temp sender	brown/yellow	brown/violet	signal from e30 m3 oil temp sensor to instrument cluster	
20					
	3 C103 (in glove box)				
	engine speed	black		signal from dme to tachometer	
	main relay	green/red		ignore	
3	fuel rate	yellow/white		signal from dme to obc and instrument cluster	
F20.07	0. Hornooo				
		engine side wire color			
1					
2					
		black/blue		signal from dme to turn on compressor relay	
		black/gray		Signal from due to turn on complesson heav	
		violet/gray		signal from car to dime to turn on a/c	
		green	ignore	signal from car to dree to disable starting	
		gray	wire to cluster	check engine light	
9					
10	reverse light	blue/yellow	ignore	transmission switch connects to engine harness on the e36, the e30 transmission switch connects to the chassis	
		brown/yellow	ignore	signal from e36 instrument cluster to coolant temp sensor, not used in e30	
		brown/violet	goes to e30 harness pin 4	return signal from sensor to instrument cluster, e30 sensor uses a single wire that connects to this wire	
	oxygen sensor, fuel pump relay		goes to e30 harness pin 15	power from engine side relay to fuel pump	
		black/white	wire to cluster, green plug	road speed signal from instrument cluster to dme, (used for higher rev limit above 1st grear speeds?), run wire from 2-pin green connector on back of instrument cluster to this wire	
		black/green	ignore		
		white/yellow	ignore		
		white/violet	ignore	arma function on e20	
		black/yellow white/green	goes to e30 harness pin 18 goes to e30 harness pin 11	same function as e30 same function as e30 - has nothing to do with engine management	
		black	wire to glove box c103 black wire	rpm signal from dme, goes to pin 1 of e30 c103	
		green	goes to e30 harness pin 7	same function as e30	
	reversing light switch	green/white	ignore	transmission switch connects to engine harness on the e36, e30 goes to body chassis	
		brown/white	goes to e30 harness pin 5	same function as e30	
		white/black	a	fuel consumption signal from dree to instrument cluster	
25	alternator	blue	goes to e30 harness pin 1	same function as e30	
95 s50	harness has three relays				
			dme controls this relay, controls power to most engine sensors, etc		
		dme controls this relay, fuel pump power out goes through harness connector			
oxygen	n sensor heater relay self contained in engine harness, no wires pass through h		ine harness, no wires pass through h	arness connector	
	ower is delivered to the s14 harness via the grn/yel wire, this wire is not needed on e36 as power comes to the s50 via a red wire to the battery terminal				
the gre	he green ignition wire from the e30 goes to the s50 dme to turn on the engine management system				
oil love	lavel sensor - looking into the engine side connector with the middle hump up, pin numbering left to right is 3,2,1 - pin 3 is ground, wires 1,8,2 connect to 20, m3 harpess				
oil level sensor - looking into the engine side connector with the middle bump up, pin numbering left to right is 3,2,1 - pin 3 is ground, wires 1 & 2 connect to e30 m3 harness					