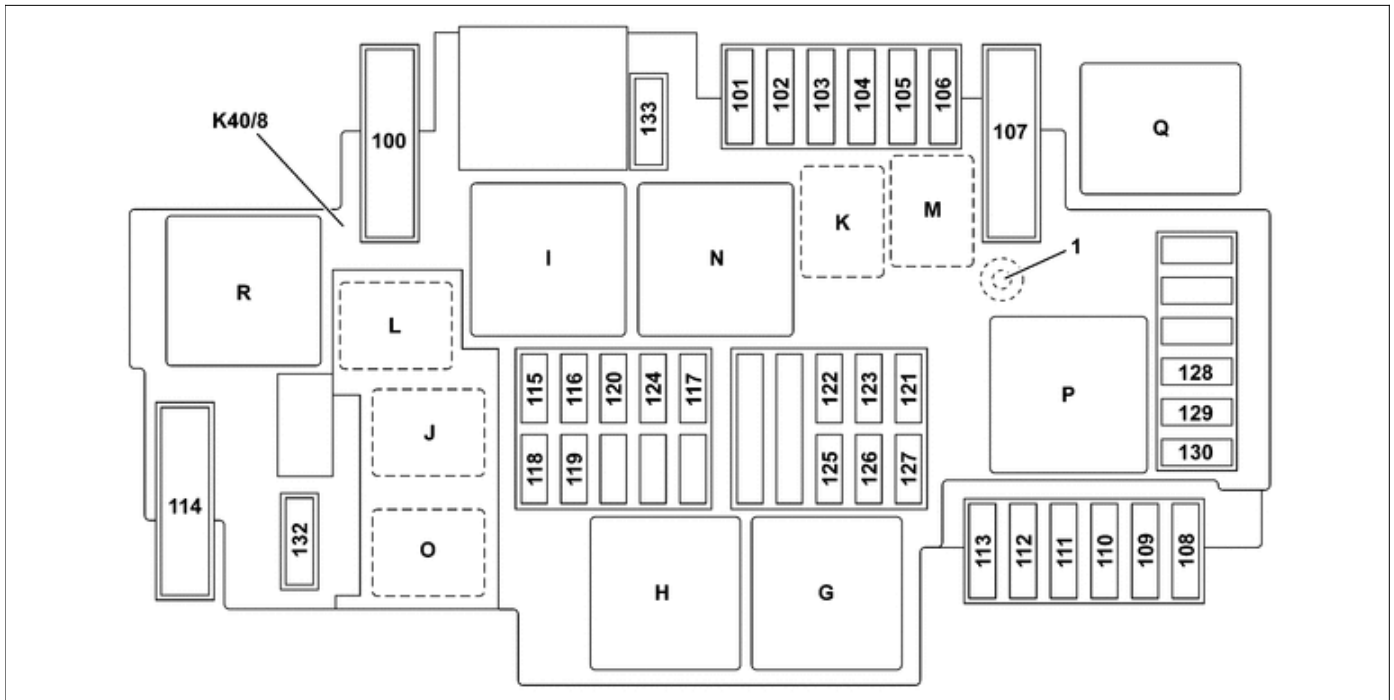


Model 257, 290



P54.15-3687-09

1 Connection "E1"

K40/8 Engine fuse and relay module

**i** Relays J, K, L, M and O are located inside the housing and firmly soldered onto the PCB.

Slot	Fuse	Circuit	Wire Identification	Fused component	Fuse rating (A)
100	Electrical fuse 100 (K40/8f100)	-	-	Spare	-
101	Electrical fuse 101 (K40/8f101)	87M	1.5 RDGN	<b>Engine 256:</b> Circuit 87M end sleeve (Z7/48z1) <b>Engine 264:</b> Fuel tank diagnostic module (A101)	15
				<b>Engine 654, 656:</b> CDI control unit (N3/9)	
102	Electrical fuse 102 (K40/8f102)	87M	2.5 RDBU	<b>Engine 654, 656:</b> CDI control unit (N3/9)	20
				<b>Engine 177, 256:</b> ME-SFI [ME] control unit (N3/10)	
			4.0 RDBU	<b>Engine 264:</b> ME-SFI [ME] control unit (N3/10)	
103	Electrical fuse 103 (K40/8f103)	87M	1.5 RDYE	<b>Engine 654, 656:</b> CDI control unit (N3/9)	15
				<b>Engine 264:</b> ME-SFI [ME] control unit (N3/10)	
				<b>Model 257 with code U79 (BlueTEC (SCR) diesel exhaust gas cleaning, Generation 3):</b> NOx sensor control unit downstream of SCR catalytic converter (N37/8) NOx sensor control unit upstream of diesel oxidation catalytic converter (N37/12)	
			2.5 RDYE	<b>Engine 177:</b> Fuel tank diagnostic module (A101) Oil sensor (oil level, temperature and quality) (B40)	
				<b>Engine 177:</b> Coolant thermostat heating element(R48) Left thrust circulating air switchover valve (Y101/1) Right thrust circulating air switchover valve (Y101/2) Engine oil pump valve (Y130)	

			4.0 RDYE	<b>Engine 256:</b> ME-SFI [ME] control unit (N3/10)	
104	Electrical fuse 104 (K40/8f104)	87M	1.5 RDBK	<b>Engine 654, 656:</b> CDI control unit (N3/9) Circuit 87M end sleeve (Z7/75z1)	15
			4.0 RDBK	<b>Engine 177:</b> Ignition coil, cylinders 5+6 (T4/2) Ignition coil, cylinders 7+8 (T4/3) Left intake camshaft solenoid (Y49/4) Left exhaust camshaft solenoid (Y49/6)	
				<b>Engine 256:</b> ME-SFI [ME] control unit (N3/10)	
				<b>Engine 264:</b> Potential distributor 2 power supply (X30/90)	
105...109	Electrical fuse 105 (K40/8f105) - Electrical fuse 109 (K40/8f109)	-	-	Spare	-
110	Electrical fuse 110 (K40/8f110)	30t	1.5 PKRD	<b>Model 257 with code 631 (LED static headlamp, left-hand traffic) or code 632 (LED static headlamp, right-hand traffic):</b> Right front lamp unit (E2)	20
			1.5 GNRD	<b>With CODE 640 (High Performance LED) or CODE 641 (Dynamic left-hand traffic LED headlamp) or CODE 642 (Dynamic right- hand traffic LED headlamp):</b> Left front lamp unit (E1) Right front lamp unit (E2)	
111	Electrical fuse 111 (K40/8f111)	30t	2.5 RDBK	Wiper motor (M6/1)	30
112	Electrical fuse 112 (K40/8f112)	-	-	Spare	-
113	Electrical fuse 113 (K40/8f113)	50	2.5 VTWH	<b>Except code B01 (48V technology):</b> Starter (M1)	30
114	Electrical fuse 114 (K40/8f114)	87	4.0 RDWH	<b>Model 257 with code 489 (AIR BODY CONTROL):</b> AIR BODY CONTROL compressor (A9/1)	40
			2.5 RDGN	<b>Model 290 with engine 177:</b> Low-temperature circuit circulation pump 1 (M43/6) Low-temperature circuit circulation pump 3 (M43/8)	20
115	Electrical fuse 115 (K40/8f115)	-	-	Spare	-
116	Electrical fuse 116 (K40/8f116)	-	-	Spare	-
117	Electrical fuse 117 (K40/8f117)	30t	0.5 RD	<b>Engine 256:</b> Electric refrigerant compressor (A9/5)	7,5
118	Electrical fuse 118 (K40/8f118)	87C	1.0 RDGN	Low-temperature circuit circulation pump 1 (M43/6)	15
				<b>Engine 256:</b> Low-temperature circuit switchover valve (Y73/1)	
				<b>Model 290 with engine 177:</b> Circuit 87C end sleeve (Z141/2z1)	
119	Electrical fuse 119 (K40/8f119)	87C	1.0 RDBU	Powertrain control unit (N127) Fan motor (M4/7)	15
				<b>Engine 256, 264:</b> Low temperature circuit circulation pump 2 (M43/7)	
				<b>Model 257 with code 2U1 (Radiator shutters):</b> Upper radiator trim flap actuator motor (M2/38) Lower radiator trim flap actuator motor (M2/39)	
				<b>Model 290 with code U78 (AMG Sport exhaust system):</b> Left exhaust flap actuator motor (M16/53) Right exhaust flap actuator motor (M16/54) Exhaust flap center actuator motor (M16/55)	
				<b>Model 257 with code U21 (AMG performance exhaust system):</b> Left exhaust flap actuator motor (M16/53)	
120	Electrical fuse 120 (K40/8f120)	30t	0.5 RDBU	<b>With code 597 (Windshield, heated) and code B01 (48V technology):</b> Windshield heater control unit (N61)	5
121	Electrical fuse 121 (K40/8f121)	15M	0.75 RD	Park pawl capacitor (C8)	10
122	Electrical fuse 122 (K40/8f122)	15M	1.0 PKRD	<b>Model 290 with code 467 (Electronic locking differential):</b> Electric differential lock control unit (N3/2)	5
123	Electrical fuse 123 (K40/8f123)	15M	0.5 BKRD	Front SAM control unit (N10/6)	5
124	Electrical fuse 124 (K40/8f124)	-	-	Spare	-
125	Electrical fuse 125 (K40/8f125)	15M	0.5 PKRD	Powertrain control unit (N127)	5
				<b>With code B01 (48V technology):</b> 48 V on-board electrical system battery (G1/3)	

				<b>Engine 654, 656:</b> CDI control unit (N3/9)	
				<b>Engine 256, 264:</b> ME-SFI [ME] control unit (N3/10)	
				<b>Engine 177:</b> Drive Unit control unit (N145/1)	
				<b>With code M005 (4MATIC):</b> All-wheel drive control unit (N45)	
126	Electrical fuse 126 (K40/8f126)	-	-	Spare	-
127	Electrical fuse 127 (K40/8f127)	50	0.5 VTWH	<b>Except code B01 (48V technology):</b> Voltage dip limiter (R62)	5
128	Electrical fuse 128 (K40/8f128)	15M	0.5 PKRD	Exterior lights switch (S1)	5
129	Electrical fuse 129 (K40/8f129)	15M	0.5 RD	Electronic Stability Program control unit (N30/4)	5
130	Electrical fuse 130 (K40/8f130)	-	-	Spare	-
132	Electrical fuse 132 (K40/8f132)	87	0.35 OG	<b>Model 257 with code 489 (AIR BODY CONTROL):</b> AIR BODY CONTROL control unit (N51/3)	5
133	Electrical fuse 133 (K40/8f133)	30t	1.5 PKRD	<b>Model 257 with code 631 (LED static headlamp, left-hand traffic) or code 632 (LED static headlamp, right-hand traffic):</b> Left front lamp unit (E1)	20
				<b>With CODE 640 (High Performance LED) or CODE 641 (Dynamic left-hand traffic LED headlamp) or CODE 642 (Dynamic right-hand traffic LED headlamp):</b> Left front lamp unit (E1) Right front lamp unit (E2)	

Relays	Designation
G	Engine compartment circuit 15 relay (K40/8kG)
H	Starter circuit 50 relay (K40/8kH)
I	Reserve relay (K40/8kI)
J	CPC relay (K40/8kJ)
K	Reserve relay (K40/8kK)
L	Reserve relay (K40/8kL)
M	Reserve relay (K40/8kM)
N	Circuit 87M relay (K40/8kN)
O	Not assigned
P	Backup relay (K40/8kP)
Q	Not assigned
R	<b>Model 257 with code 489 (AIR BODY CONTROL), model 290 with engine 177:</b> Relay R (K40/8kR)