

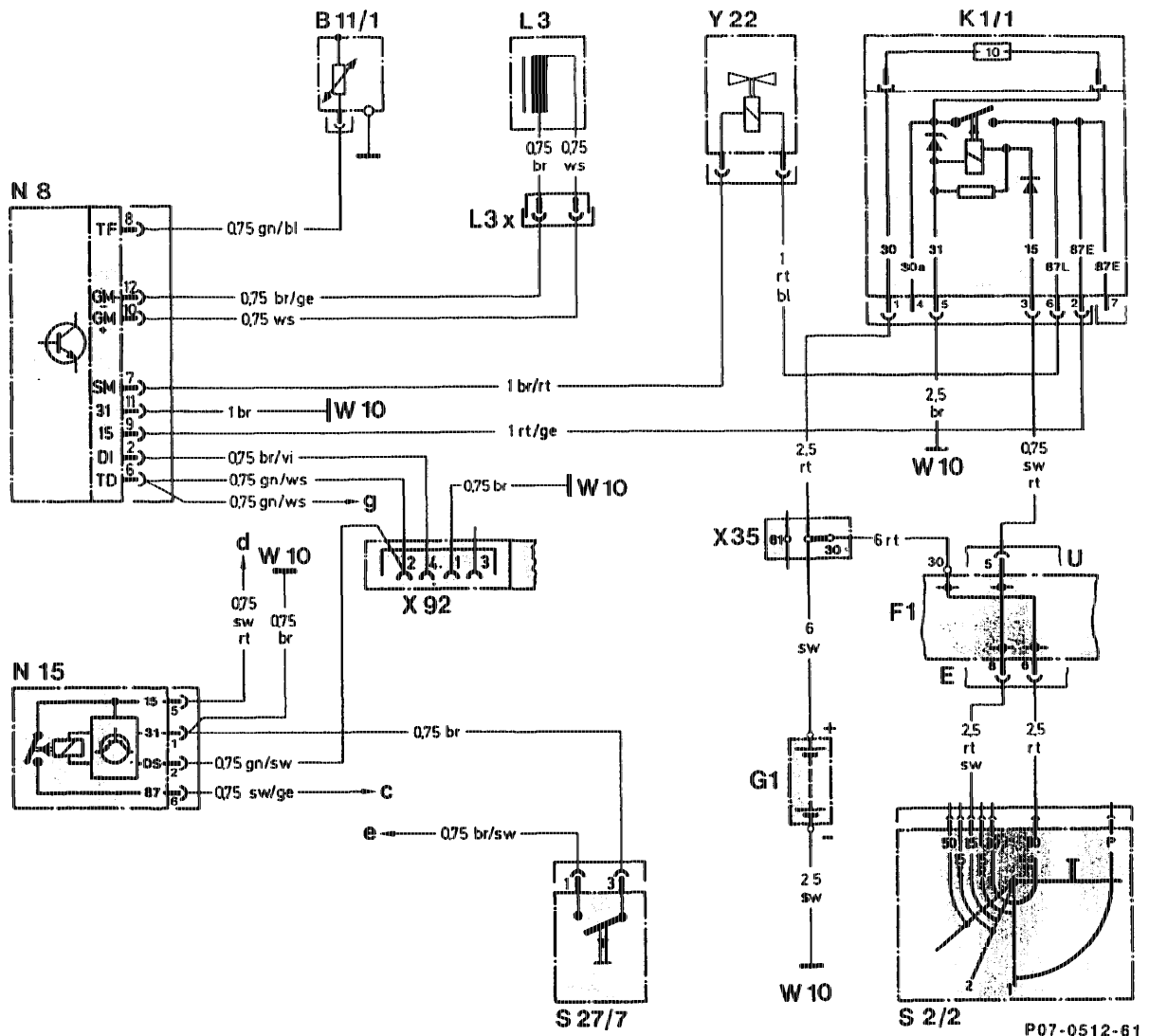
The wiring diagrams have been classified as follows up to and including 08/1989 or model year 1989, respectively.

Assigned to the relevant wiring diagram volume as of 09/1989 or model year 1990.

Model 124 as of 09/1989 or Model Year 1990
Volumes 4 and 4.1

Model 201 as of 09/1989 or Model Year 1990
Volumes 5 and 5.1

Model 140 as of 09/1989 or Model Year 1992
Volumes 1 and 2



P07-0512-61

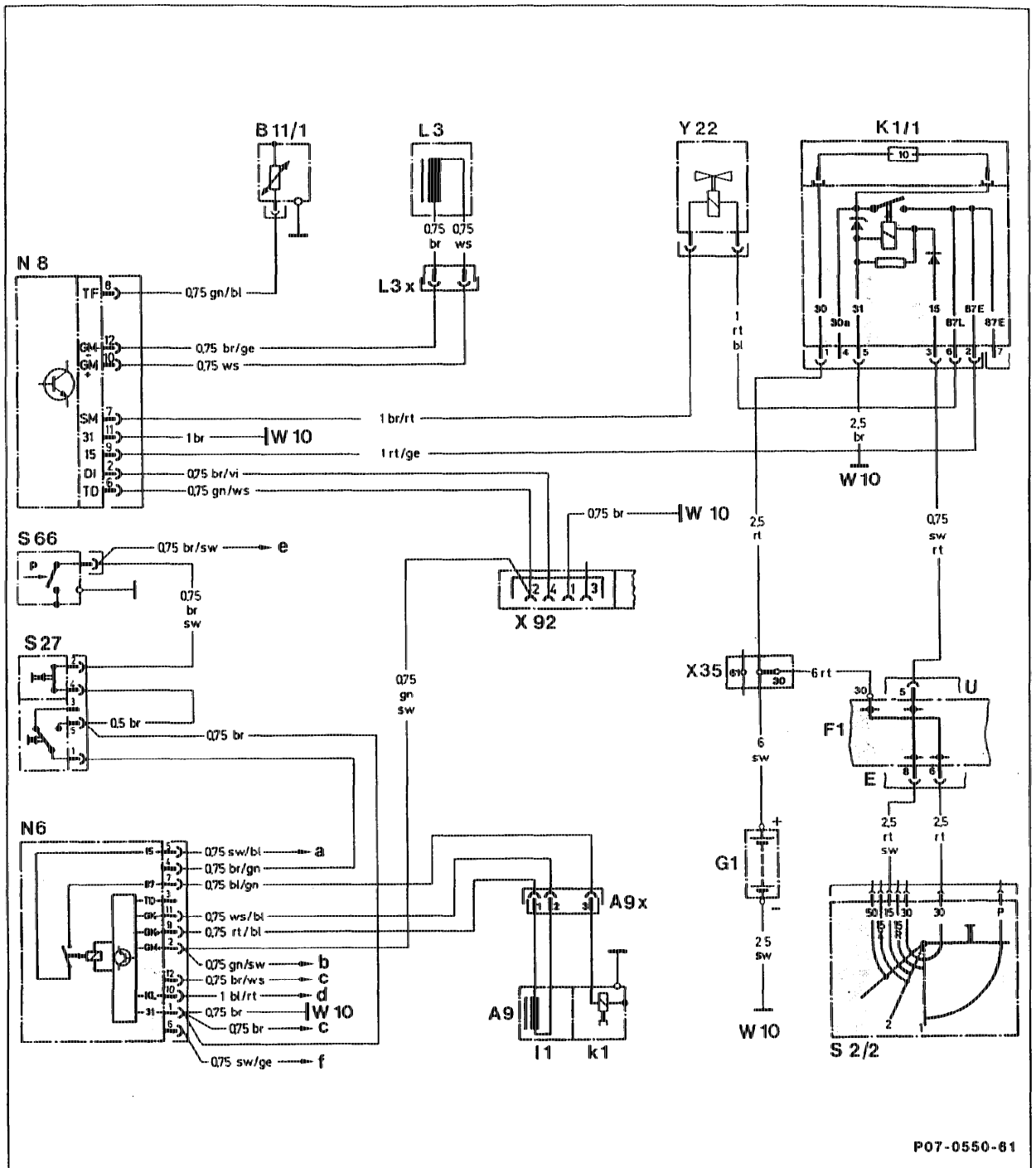
Wiring diagram electronic idle speed control Engine 602.961 Standard Model 201 without refrigerant compressor, as of start of production

F1	Electrical centre	N15	Relay, kick-down cutout
E	Electrical centre, contacts 6 and 8	S2/2	Glow start switch
U	Electrical centre, contact 6	S27/7	Microswitch, charge pressure cutout
G1	Battery	W10	Battery ground
K1/1	Relay overvoltage protection	X92	Test connection for diagnostics (8-pin)
B11/1	Coolant temperature sensor (ELR)	Y22	Actuator (ELR)
L3	Engine speed sensor, starter ring gear	c	Plug connection, taillamp
L3x	Plug connection, engine speed sensor, starter ring gear	d	Electrical centre connector W, contact 2
N8	Control (ELR)	g	Tachometer
		e	Pressure switch (S66)

Note

Ground points not shown go to engine ground or battery ground.





P07-0550-61

Wiring diagram electronic idle speed control Engine 602.961 Standard Model 201 with refrigerant compressor, as of start of production

A9	Refrigerant compressor	S27	A/C compressor/charge cut-out microswitch
A9/k1	Electromagnetic clutch, refrigerant compressor	S66	Switch, engine overload protection
A9/1	RPM sensor, refrigerant compressor	W10	Battery ground
A9x	Plug connection, refrigerant compressor	K1/1	Relay, overload protection
B11/1	Coolant temperature sensor, idle speed control	X35	Terminal block, terminal 30/terminal 61 (battery)
F1	Electrical centre	X92	Test connection for diagnostics (8-pin)
F1E	Electrical centre, contacts 6 and 8	Y22	Actuator, idle speed control
F1U	Electrical centre, contact 6	a	Relay, auxiliary fan K9 contact 4
G1	Battery	b	Electronic clock/tachometer (A1p7)
L3	Engine speed sensor, starter ring gear	c	Temperature switch 105/115°C (S25/5)
L3x	Plug connection, engine speed sensor, starter ring gear	d	Pressure switch, refrigerant compressor (S31/1)
N6	Control unit, compressor cutoff	e	Switchover valve, engine overload protection
N8	Control unit, idle speed control	f	Plug connection, tail lamp wiring harness
S2/2	Glow start switch		

Note

Ground points not shown go to engine ground or battery ground.



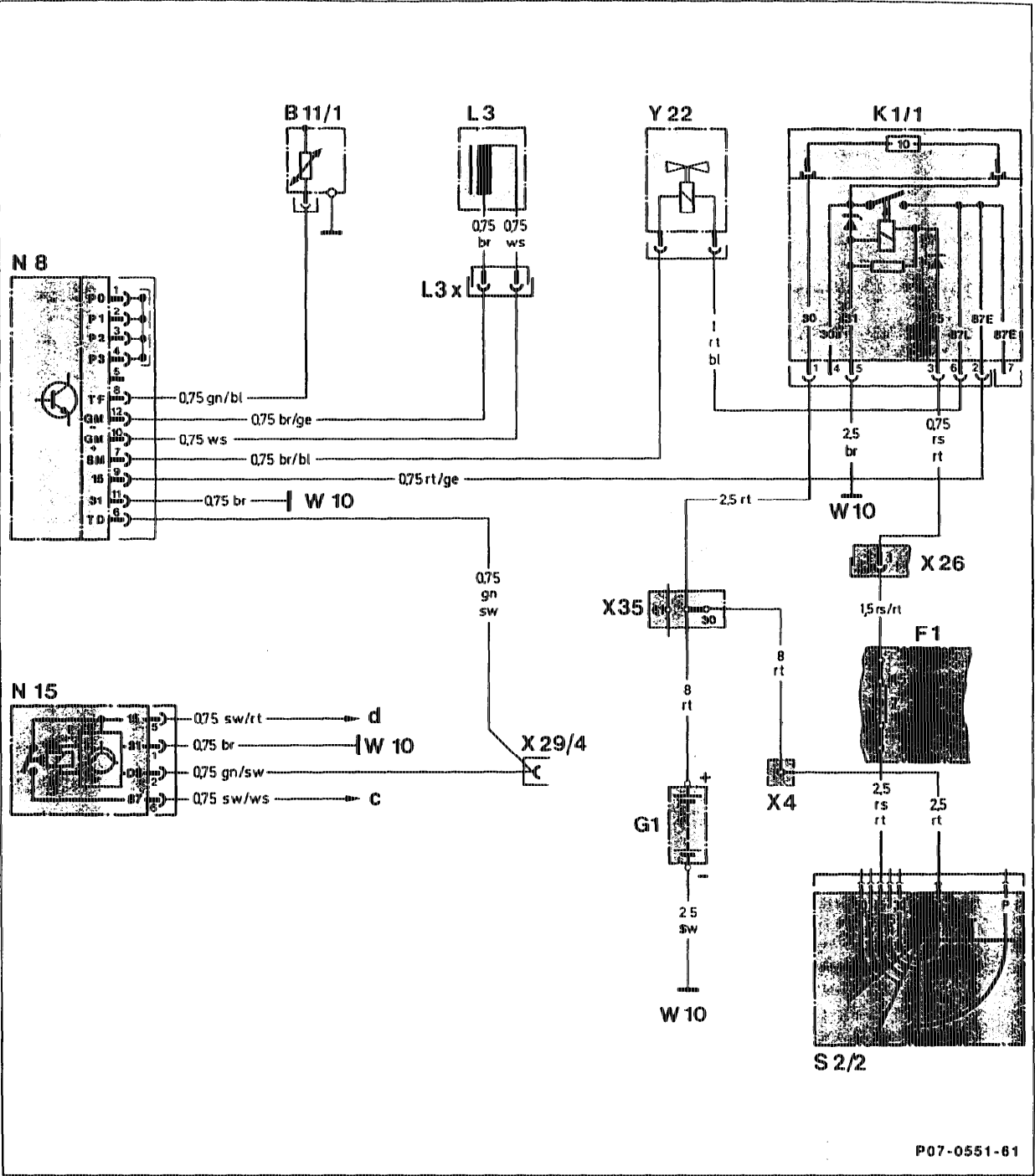
Wiring diagram electronic diesel system Engine 602.961 (USA) Federal Model 201 Model Year 1987

A9	Refrigerant compressor	X18/1	Plug connection, taillamp wiring harness/compressor wiring harness
A9k1	Electromagnetic clutch	X48	Sleeve terminal (solder connector)
A9/1	RPM sensor	X62	Plug connection, speed sensor, starter ring gear
B2/1	Air flow sensor potentiometer	X92	Test connection for diagnostics (8-pin)
B11/4	Coolant temperature sensor, idle speed control	Y3	Kickdown valve automatic transmission
B18	Altitude sensor	Y22	Actuator (ELR)
K1/1	Relay, overvoltage protection	Y31/1	Vacuum transducer, exhaust gas recirculation
L3	Engine speed sensor, starter ring gear	a	To terminal block X35, terminal 30/61 (battery)
L7	Control rod travel sensor	b	To electrical centre connector U contact 5
N6	Control unit, compressor shutoff	c	To relay, double auxiliary fan (K8/1) contact 5
N39	Control unit (EDS)	d	To electrical centre connector W contact 4
R18/1	Resistance trimming plug (ELR)	e	To relay, double auxiliary fan (K8/1) contact 4
R18/2	Reference resistor (ARF)	f	To tachometer (A1p7)
S25/5	Temperature switch 105/115 °C	g	To switch, engine overload protection (S66)
S27	A/C compressor/charge pressure cut-out microswitch		
S30/1	Kickdown switch		
S31	Pressure switch, refrigerant compressor		
W10	Battery ground		

Note

Ground points not shown go to engine ground or battery ground.





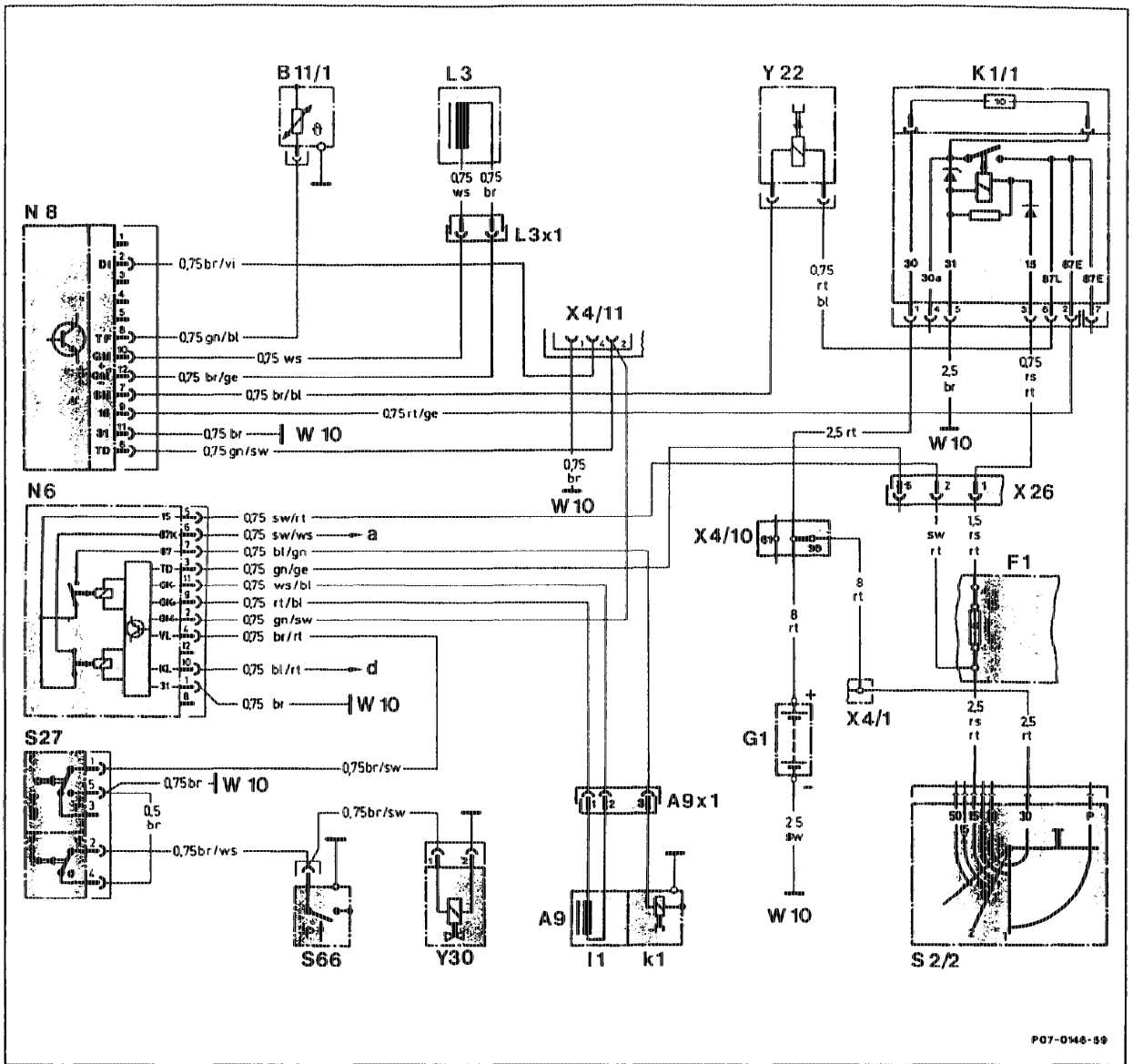
Wiring diagram electronic idle speed control Engine 603.96 Standard Model 124 without refrigerant compressor, as of start of production

B11/1	Coolant temperature sensor, idle speed control	X26	Plug connection, interior/engine
F1	Fuse and relay box	X29/4	Test connection (TD) EDS
G1	Battery	X35	Terminal block, terminal 30/terminal 61 (battery)
K1/1	Relay, overvoltage protection	Y22	Actuator, idle speed control
L3	Speed sensor, starter ring gear	c X26	Plug connection, engine wiring harness, contact 9
L3x	Plug connection, engine speed sensor, starter ring gear	d X26	Plug connection, engine wiring harness, contact 9
N8	Control unit, idle speed control		
N15	Relay, kick-down cutout		
S2/2	Glow start switch		
W10	Battery ground		
X4	Terminal block, terminal 30 relay fuse box		

Note

Ground points not shown go to engine ground or battery ground.





P07-0448-59

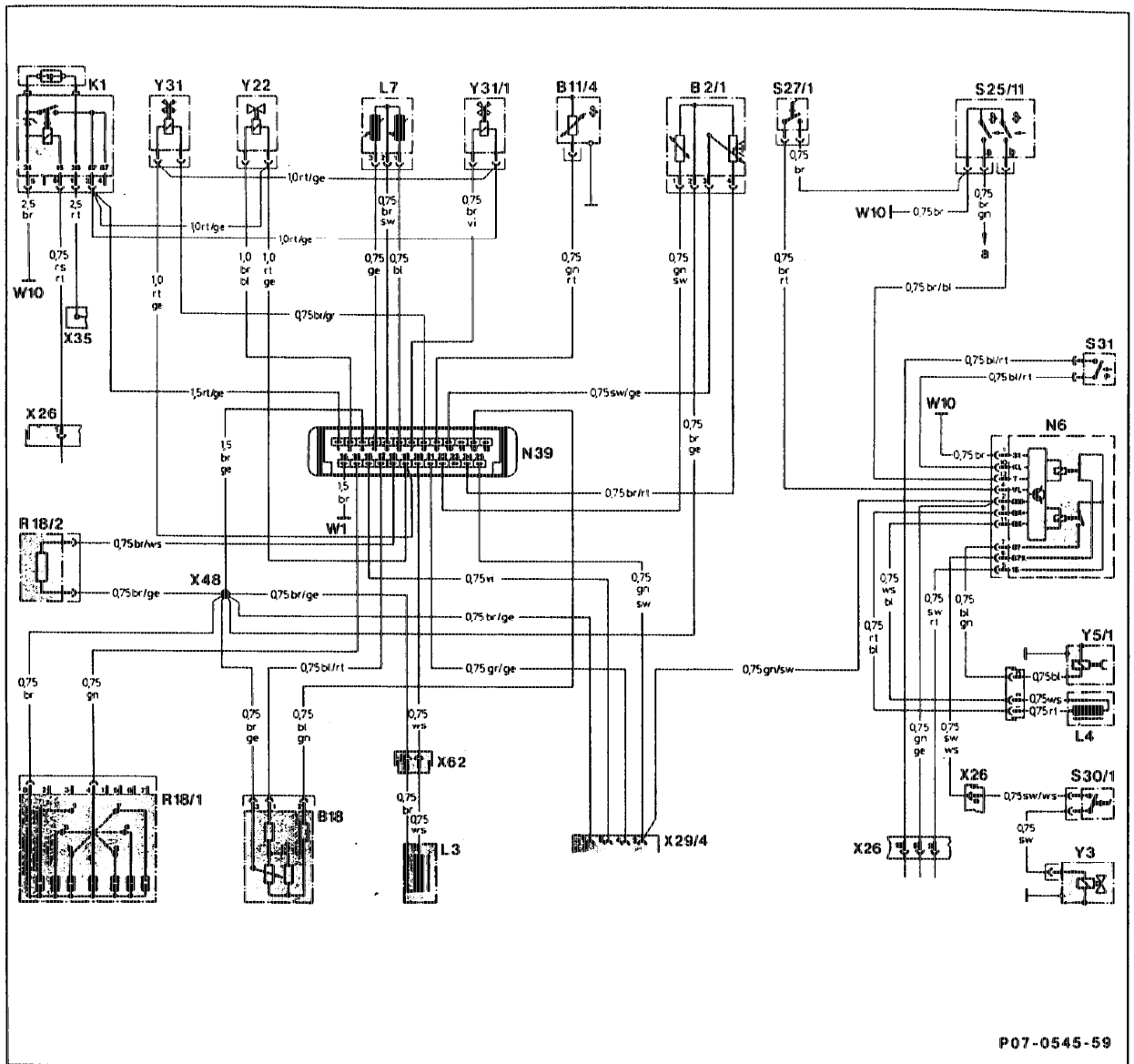
Wiring diagram electronic idle speed control Engine 603.96 Standard Model 124 with refrigerant compressor, as of start of production

A9	Refrigerant compressor	X4	Terminal block, terminal 30, relay fuse box
A9k1	Electromagnetic clutch	X26	Plug connection, interior/engine
A9l1	Engine speed sensor	X29/4	Test connection TD, EDS
B11/1	Coolant temperature sensor, idle speed control	X35	Terminal block, terminal 30/terminal 61 (battery)
F1	Fuse relay box	Y22	Actuator, idle speed control
G1	Battery	a	Plug connector (X26) interior engine 2-pin, contact 9
K1/1	Relay, overvoltage protection	b	Plug connector (X26) interior engine 12-pin, contact 6
L3	Engine speed sensor, starter ring gear	c	A/C compressor (S27) charge pressure cut-out microswitch, contact 1
L3x	Plug connection, engine speed sensor, starter ring gear	d	Pressure switch (S32) auxiliary fan
N6	Control unit, compressor cutoff		
N8	Control unit, idle speed control		
S2/2	Glow start switch		
W10	Battery ground		

Note

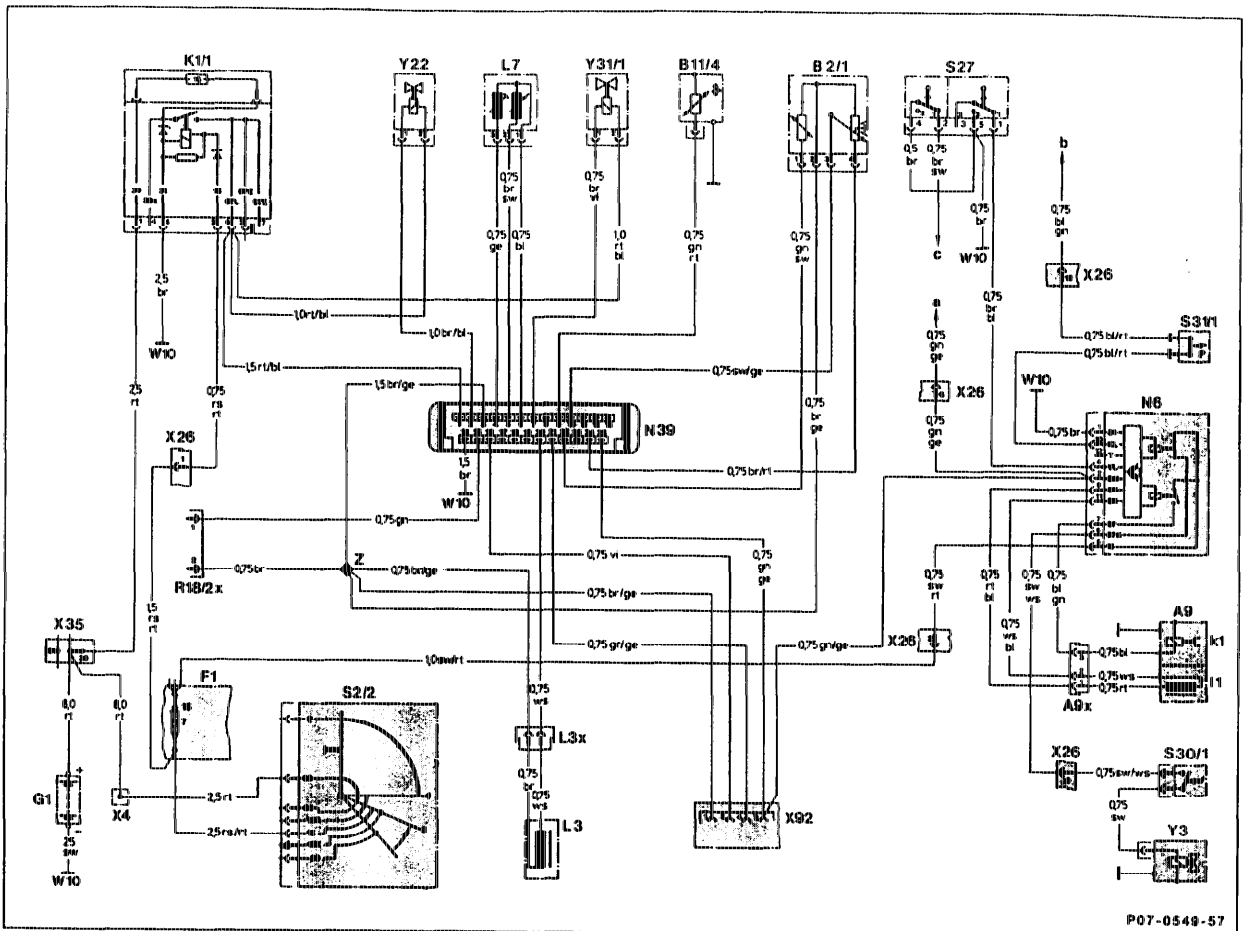
Ground points not shown go to engine ground or battery ground.





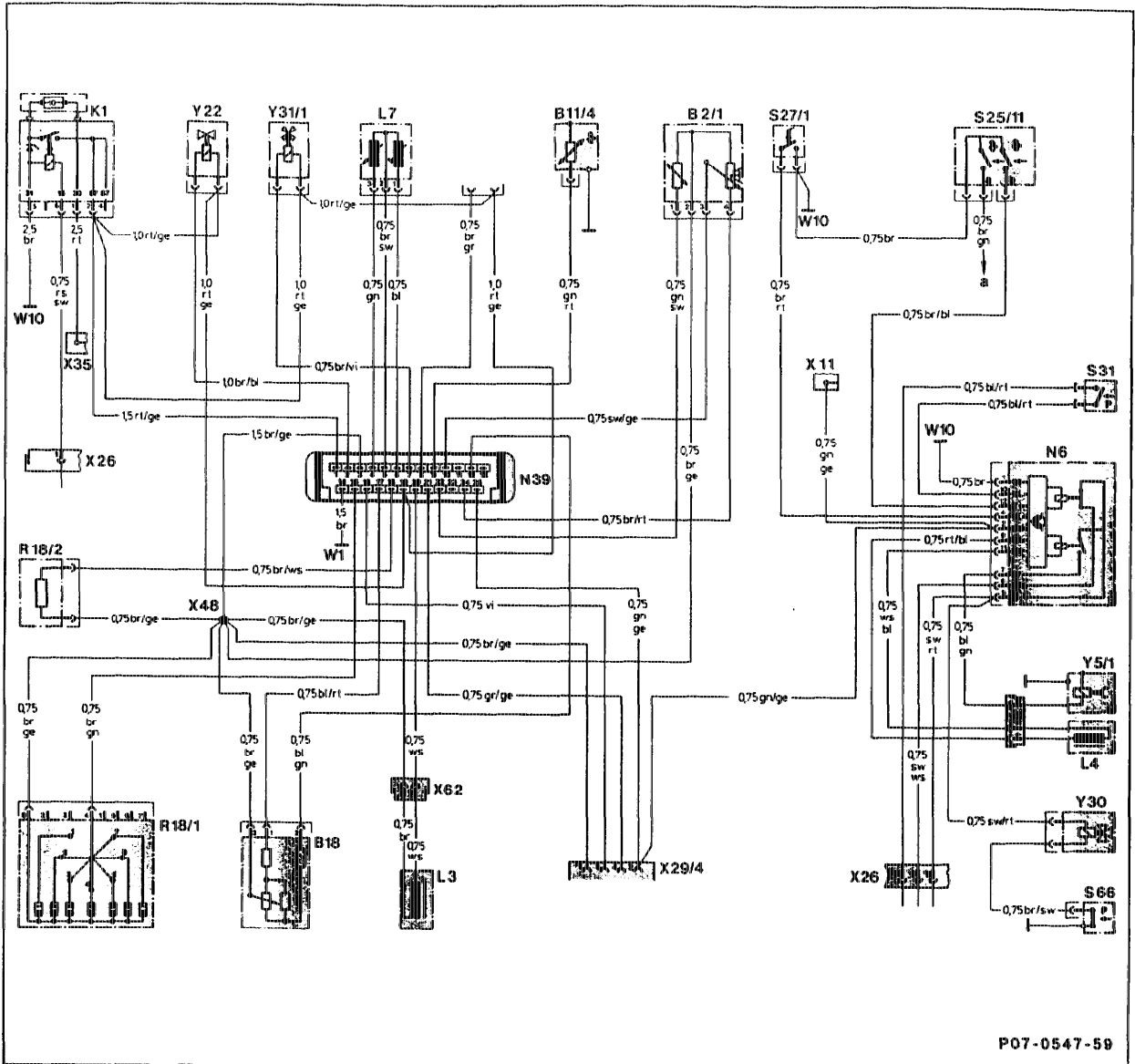
Wiring diagram electronic diesel system Engine 603.96 (USA) Model 124, 133/193 Model Year 1987

B2/1	Air flow sensor potentiometer	X26	Plug connection, interior/engine
B11/4	Coolant temperature sensor (EDS)	X29/4	Test connection (TD, EDS)
B18	Altitude sensor	X35	Terminal block, terminal 30/61 battery
K1	Relay, overvoltage protection	X48	Connector sleeve (soldered connector in wiring harness)
L3	Engine speed sensor, starter ring gear	X62	Plug connection, speed sensor, starter ring gear
L4	Speed sensor, refrigeration compressor	Y3	Switchover valve, automatic transmission
L7	Control rod travel sensor	Y5/1	Electromagnetic clutch, refrigerant compressor
N6	Control unit, compressor cutoff	Y22	Actuator (ELR)
N39	Control unit (EDS)	Y31	Vacuum transducer, air recirculation valve
R18/1	Resistance trimming plug (ELR)	Y31/1	Vacuum transducer (ARF)
R18/2	Reference resistor (ARF)	W1	Main ground behind instrument cluster
S25/11	Temperature switch 105–120 °C	W10	Battery ground
S27/1	A/C compressor cut-out microswitch	a	To relay, auxiliary fan (K9) contact 5
S30/1	Kickdown switch		
S31	Pressure switch, refrigerant compressor		



Wiring diagram electronic diesel system Engine 603.96 (J) Model 124 Model Year 1988

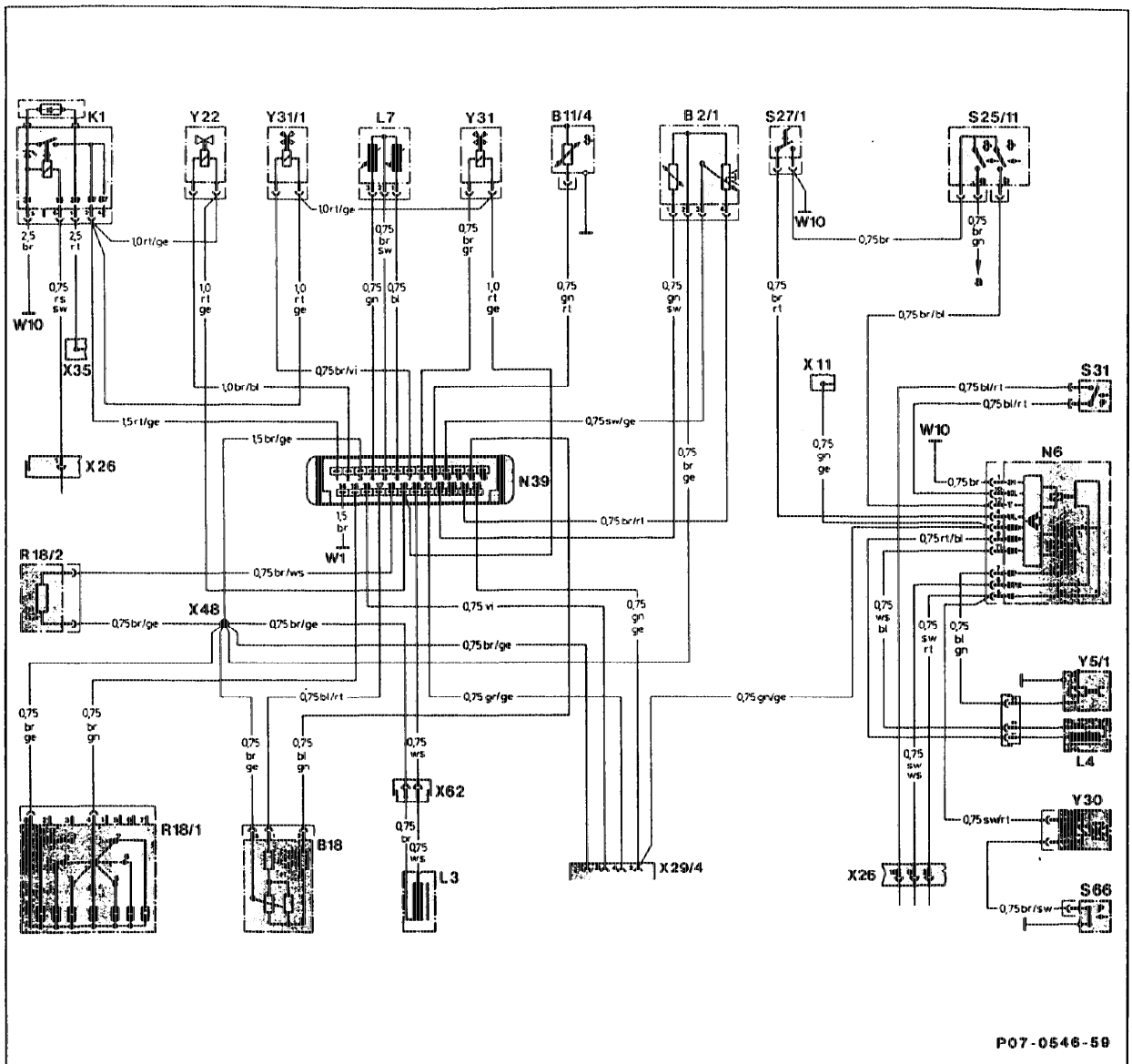
A9	Refrigerant compressor	X4	Terminal block, terminal 30, relay fuse box
A9k1	Electromagnetic clutch	X26	Plug connection, interior/engine
A9/1	Engine speed sensor	X35	Terminal block, terminal 30/61 (battery)
A9x	Plug connection, refrigerant compressor	X92	Test connection for diagnostics (8-pin) (pulse readout)
B2/1	Air flow sensor potentiometer (EDS)	Y3	Switchover valve, automatic transmission
B11/4	Coolant temperature sensor (EDS)	Y22	ELR actuator
F1	Fuse box, fuse 7 terminal 15	Y31/1	Vacuum transducer, exhaust gas recirculation
G1	Battery	W10	Battery ground
K1/1	Relay, overvoltage protection	Z	Sleeve terminal (solder connector in wiring harness)
L3	Engine speed sensor, starter ring gear	a	Electronic clock – tachometer A1p7
L3x	Plug connection, engine speed sensor, starter ring gear	b	N22 control unit, automatic climate control, contact 7
L7	Control rod travel sensor	c	S66 switch, engine overload protection
N6	Control unit, compressor shutoff		
N39	EDS control unit		
R18/2x	Plug connection/resistance trimming		
S2/2	Glow start switch		
S27	A/C compressor/charge pressure cut-out microswitch.		
	To relay auxiliary fan (K9), contact 5		
S30/1	Kick-down switch		
S31/1	Pressure switch, refrigerant compressor		



P07-0547-59

Wiring diagram electronic diesel system Engine 603.96  Federal Model 126 Model Year 1986

B2/1	Air flow sensor potentiometer	X11	Diagnostic socket/terminal block Terminal TD
B11/4	Coolant temperature sensor (EDS)	X26	Plug connection, interior/engine
B18	Altitude sensor	X29/4	Test connection TD, EDS
K1	Relay, overvoltage protection	X35	Terminal block, terminal 30/61 battery
L3	Speed sensor, starter ring gear	X48	Sleeve terminal (solder connector in wiring harness)
L4	Speed sensor, refrigerant compressor	X62	Plug connection, engine speed sensor, starter ring gear
L7	Control rod travel sensor	Y5/1	Electromagnetic clutch, refrigerant compressor
N6	Control unit, compressor shutoff	Y22	ELR actuator
N39	Control unit (EDS)	Y30	Switchover valve, engine overload protection
R18/1	Resistance trimming plug (ELR)	X31/1	Vacuum transducer, exhaust gas recirculation
R18/2	Reference resistor (ARF)	W1	Main ground behind instrument cluster
S25/11	Temperature switch 105–120 °C	W10	Battery ground
S27/1	Microswitch, compressor shutoff	a	To relay, auxiliary fan (K9 contact 5)
S31	Pressure switch, refrigerant compressor		
S66	Switch, engine overload protection		



P07-0546-59

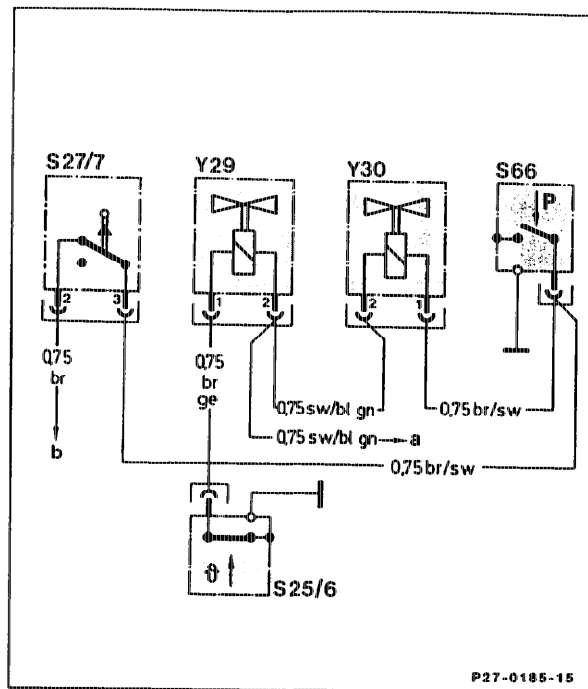
Wiring diagram electronic diesel system Engine 603.96  California Model 126 Model Year 1986

B2/1	Air flow sensor potentiometer	X26	Plug connection, engine wiring harness
B11/4	Coolant temperature sensor (EDS)	X29/4	Test connection (EDS)
B18	Altitude sensor	X35	Terminal block, terminal 30/61 battery
K1	Relay, overvoltage protection	X48	Sleeve terminal (solder connector in wiring harness)
L3	Engine speed sensor, starter ring gear	X62	Plug connection, engine speed sensor, starter ring gear
L4	Speed sensor, refrigerant compressor	Y5	Electromagnetic clutch, refrigerant compressor
L7	Control rod travel sensor	Y22	ELR actuator
N6	Control unit, compressor cutoff	Y30	Switchover valve, engine overload protection
N39	Control unit (EDS)	Y31	Vacuum transducer, air recirculation valve
R18/1	Resistance trimming plug (ELR)	Y31/1	Vacuum transducer, exhaust gas recirculation
R18/2	Reference resistor (ARF)	W1	Main ground behind instrument cluster
S25/11	Temperature switch 105–120 °C	W10	Battery ground
S27/1	A/C compressor cut-out microswitch	a	To relay, auxiliary fan (K9 contact 5)
S31	Pressure switch, refrigerant compressor		
S66	Switch, engine overload protection		
X11	Diagnostic socket/terminal block terminal TD		



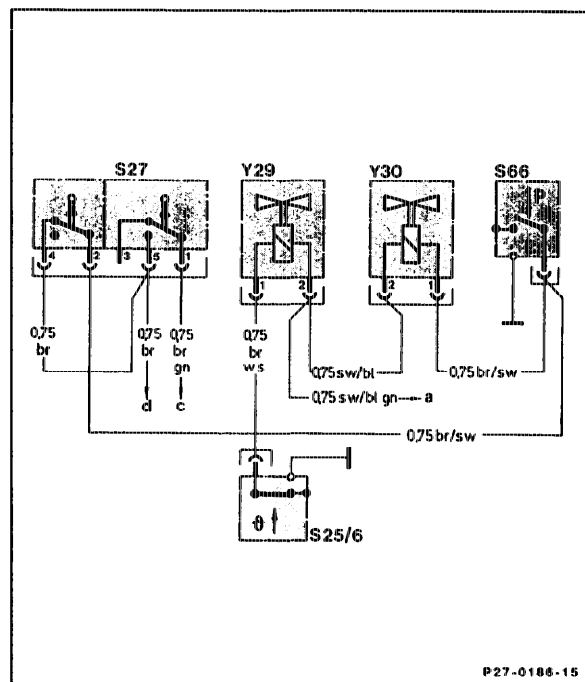
Wiring diagram engine overload protection
 Engine 602.961 Standard Model 201 without
 refrigerant compressor, as of start of production.

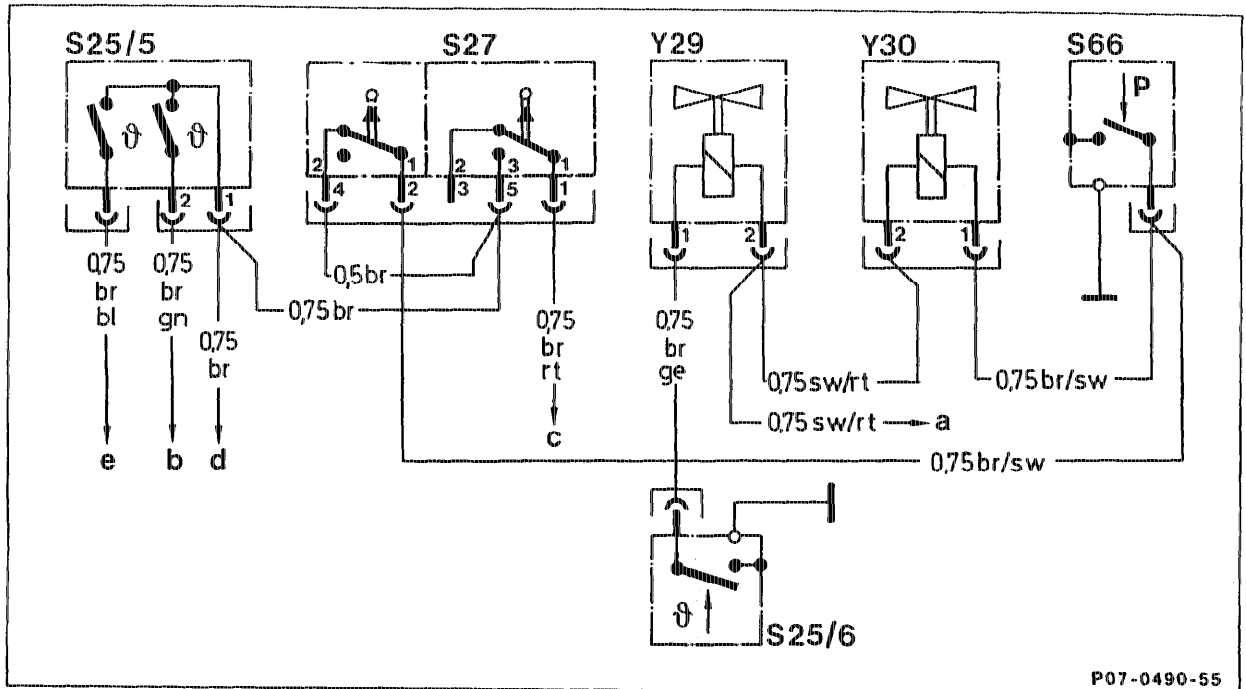
- S25/6 Temperature switch 50 °C
- S27/7 Microswitch, charge pressure cutoff
- S66 Switch, engine overload protection
- Y29 Switchover valve, vacuum amplifier,
automatic transmission
- Y30 Switchover valve, engine overload
protection
- a Tachometer connection, contact 3
- b To relay N15 kickdown cutoff



Wiring diagram engine overload protection
 Engine 602.961 Standard Model 201 with
 refrigerant compressor.

- S25/6 Temperature switch 50 °C
- S27/7 Microswitch, charge pressure cutoff
- S66 Switch, engine overload protection
- Y29 Switchover valve, vacuum amplifier,
automatic transmission
- Y30 Switchover valve, engine overload
protection
- a Tachometer connection, contact 3
- c Control unit (N6) contact 4
- d Control unit (N6) contact 1





P07-0490-55

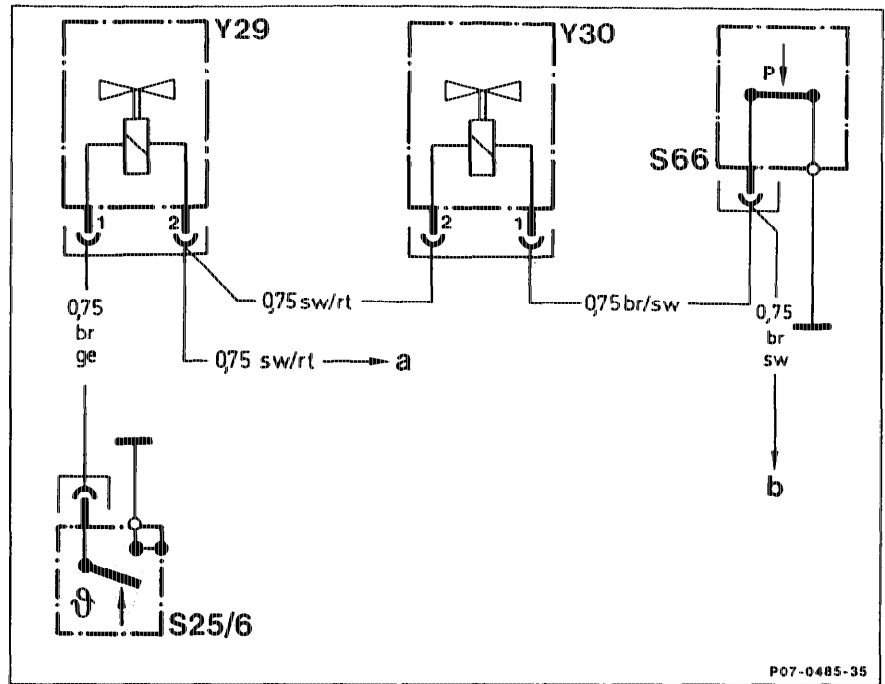
Wiring diagram engine overload protection Engine 602.961 (USA) Federal Model 201.128 effective Model Year 1987

- S25/5 Temperature switch 105/115 °C
- S25/6 Temperature switch 50 °C
- S27 A/C compressor/charge pressure cut-out microswitch
- S66 Switch, engine overload protection
- Y29 Switchover valve, vacuum amplifier
- Y30 Switchover valve, engine overload protection

- a To relay K9 auxiliary fan contact 4
- b To relay K9 auxiliary fan contact 5
- c To control unit N6 compressor cutoff contact 4
- d W10 battery ground
- e To control unit N6 compressor cutoff contact 12

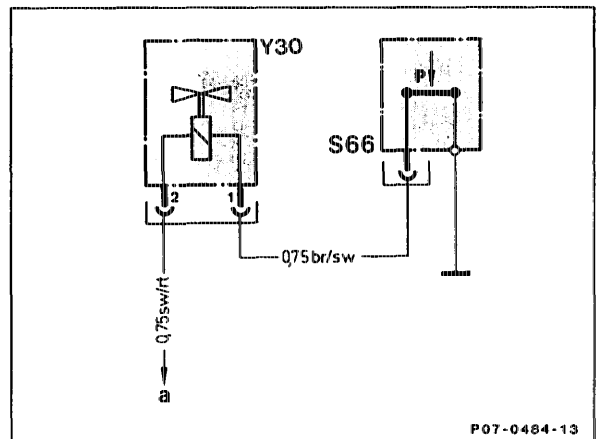
Wiring diagram engine
 overload protection
 Engine 603.96 Standard
 (USA) Model 124, as of
 start of production

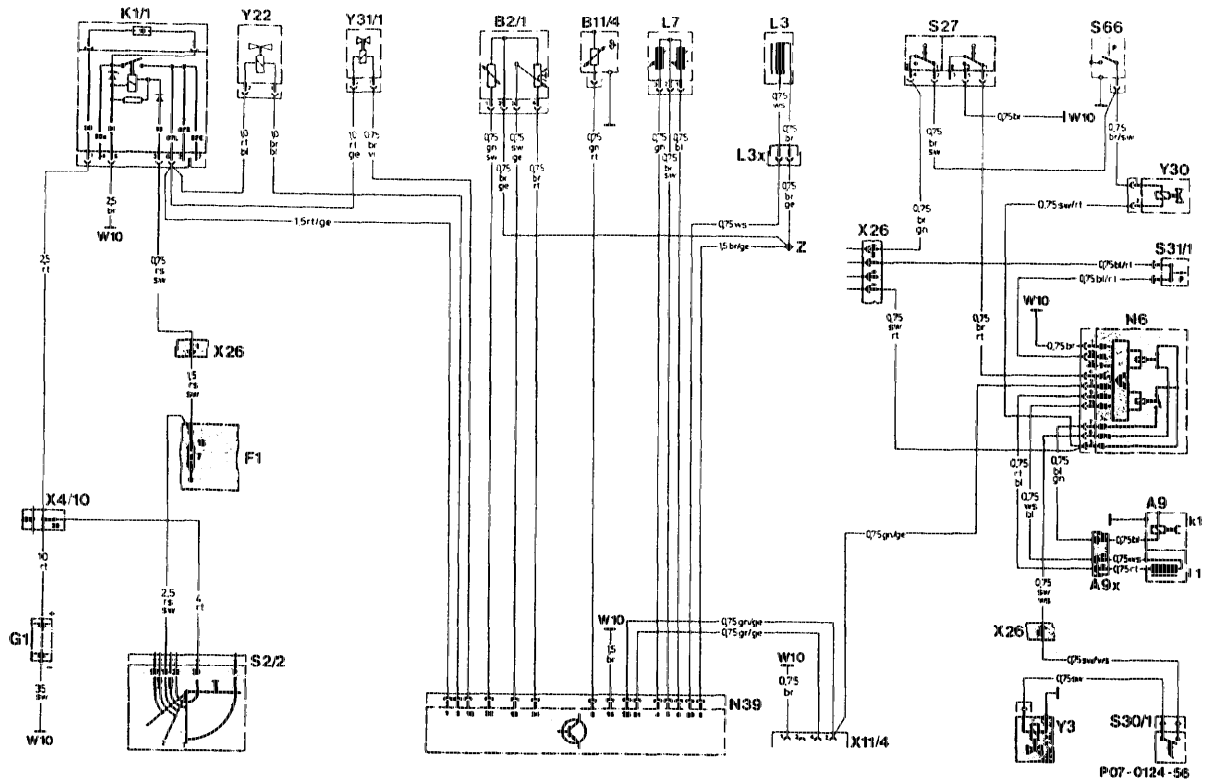
- S25/6 Temperature switch
50 °C
- S66 Switch, engine overload
protection
- Y29 Switchover valve,
vacuum amplifier,
automatic transmission
- Y30 Switchover valve, engine
overload protection
- a K9 relay auxiliary fan
terminal 86
- b S27 A/C microswitch,
compressor cutoff or
charge pressure cutoff,
contact 2



Wiring diagram engine overload protection
 Engine 603.96 (USA) Federal and California
 Model 126.125 Model Year 1986

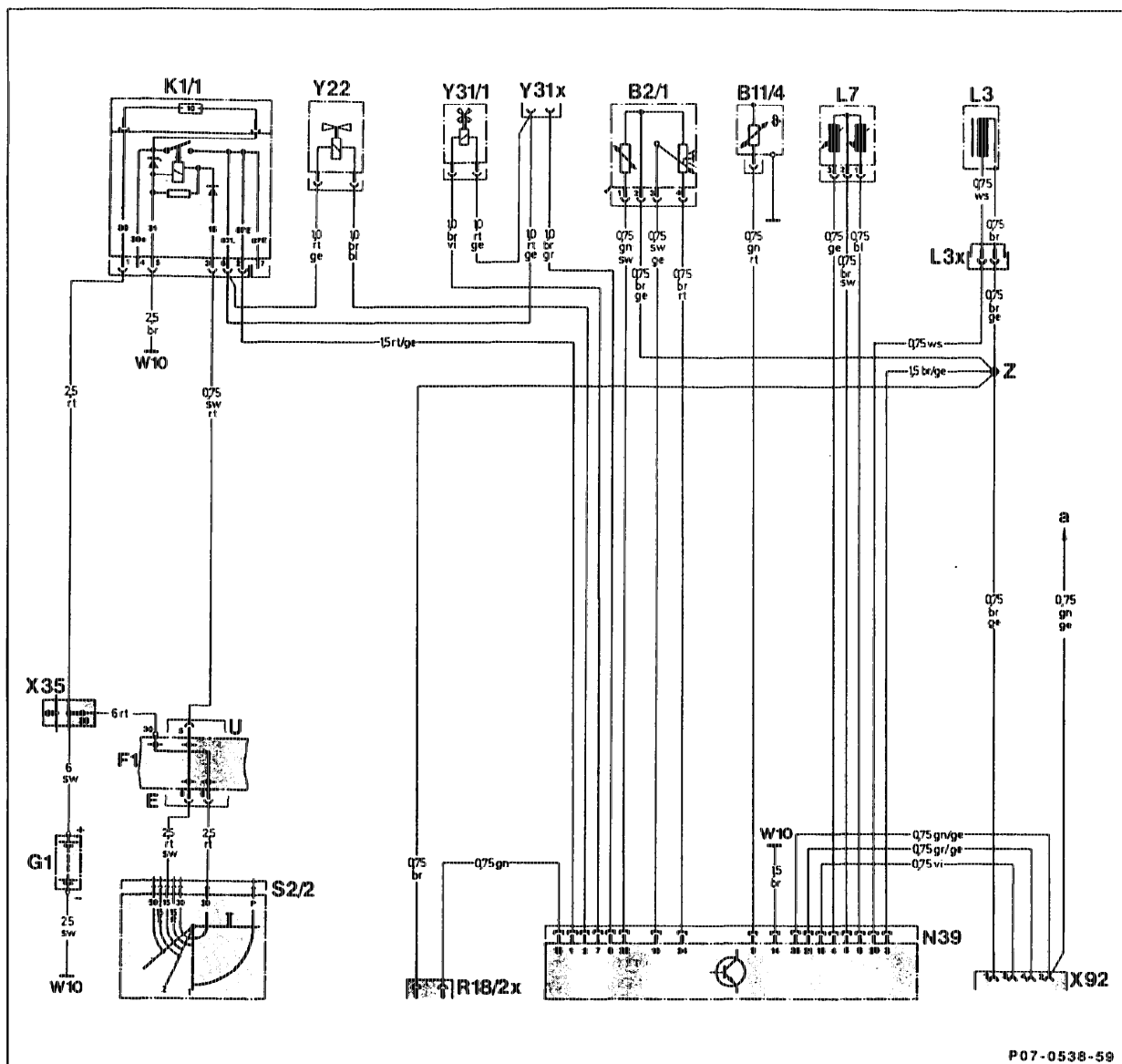
- S66 Engine overload protection switch
- Y30 Switchover valve
- a Control unit, compressor cutoff, contact 5





Wiring diagram electronic diesel system Engines 602.96, 603.96 (A) (J) (FIN) Model 124 with refrigerant compressor, Model Year 1989

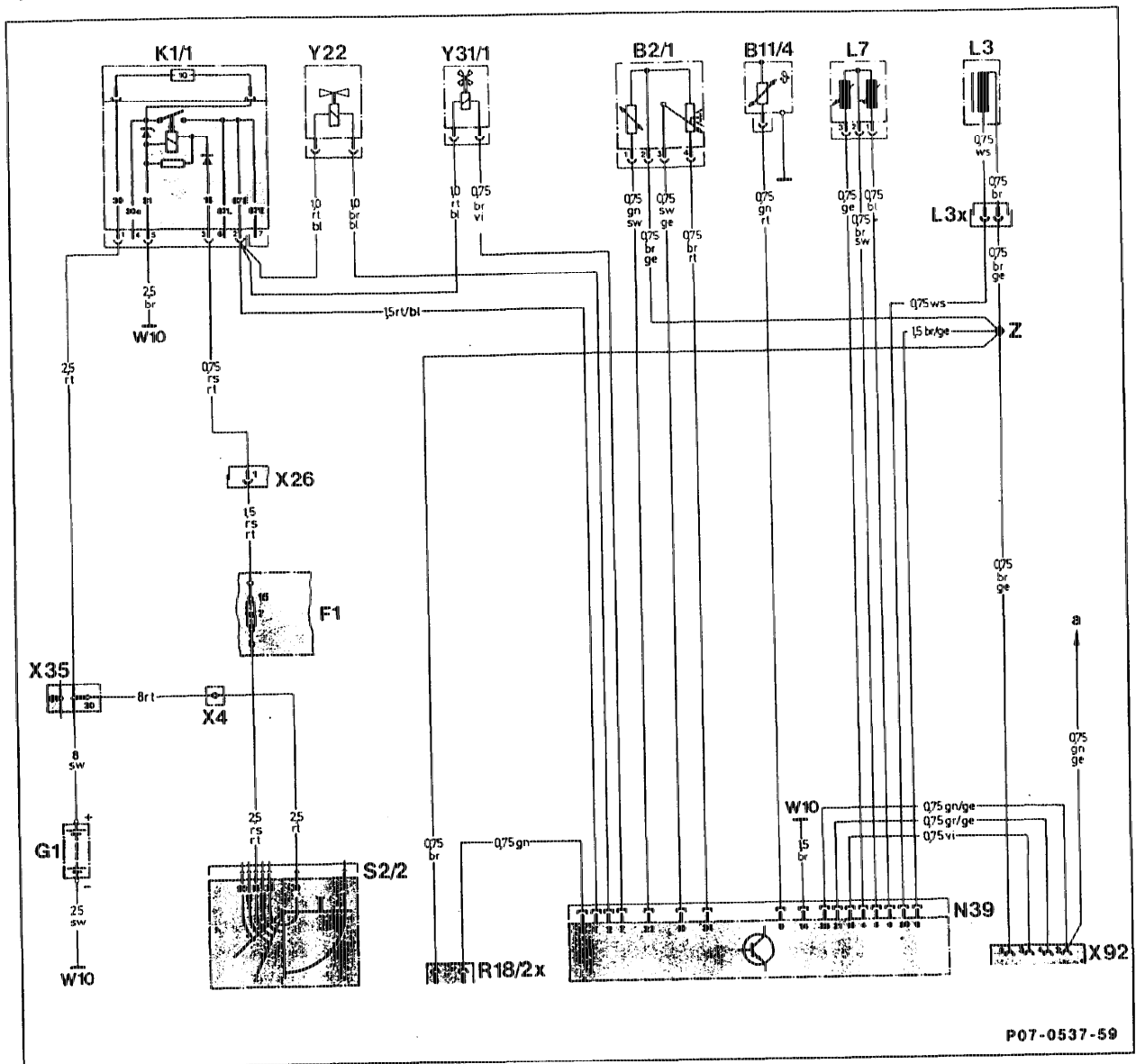
A9	Refrigerant compressor	S27	A/C compressor/charge pressure cut-out microswitch
A9k1	Electromagnetic clutch	S30/1	Kick-down switch
A9l1	Engine speed sensor	S31/1	Pressure switch, refrigerant compressor, OFF 20/30/ON 2.6/22
A9x	Plug connection, refrigerant compressor	S66	Switch, engine overload protection
B2/1	Air flow sensor potentiometer with intake air temperature sensor (EDS)	W10	Battery ground
B11/4	Coolant temperature sensor (EDS)	X4	Terminal block, terminal 30, fuse and relay box
F1	Fuse and relay box	X26	Plug connection, interior/engine
G1	Battery	X35	Terminal block, terminal 30/terminal 61 (battery)
K1/1	Relay, overvoltage protection 87E/87L (7-pin)	X92	Test connection for diagnostics, 8-pin (pulse readout)
L3	Engine speed sensor, starter ring gear	Y3	Switchover valve, automatic transmission
L3x	Plug connection, engine speed sensor, starter ring gear	Y22	Actuator, electronic idle speed control
L7	Control rod travel sensor	Y31/1	Vacuum transducer (ARF)
N6	Control unit, compressor shutoff	Z	Sleeve terminal (solder connector in wiring harness)
N39	Control unit, electronic diesel system		
R18/2x	Plug connection, reference resistor		
S2/2	Glow start switch		



P07-0538-59

Wiring diagram electronic diesel system Engine 602.961 (A) (J) (FIN) Model 201 without refrigerant compressor, Model Year 1989

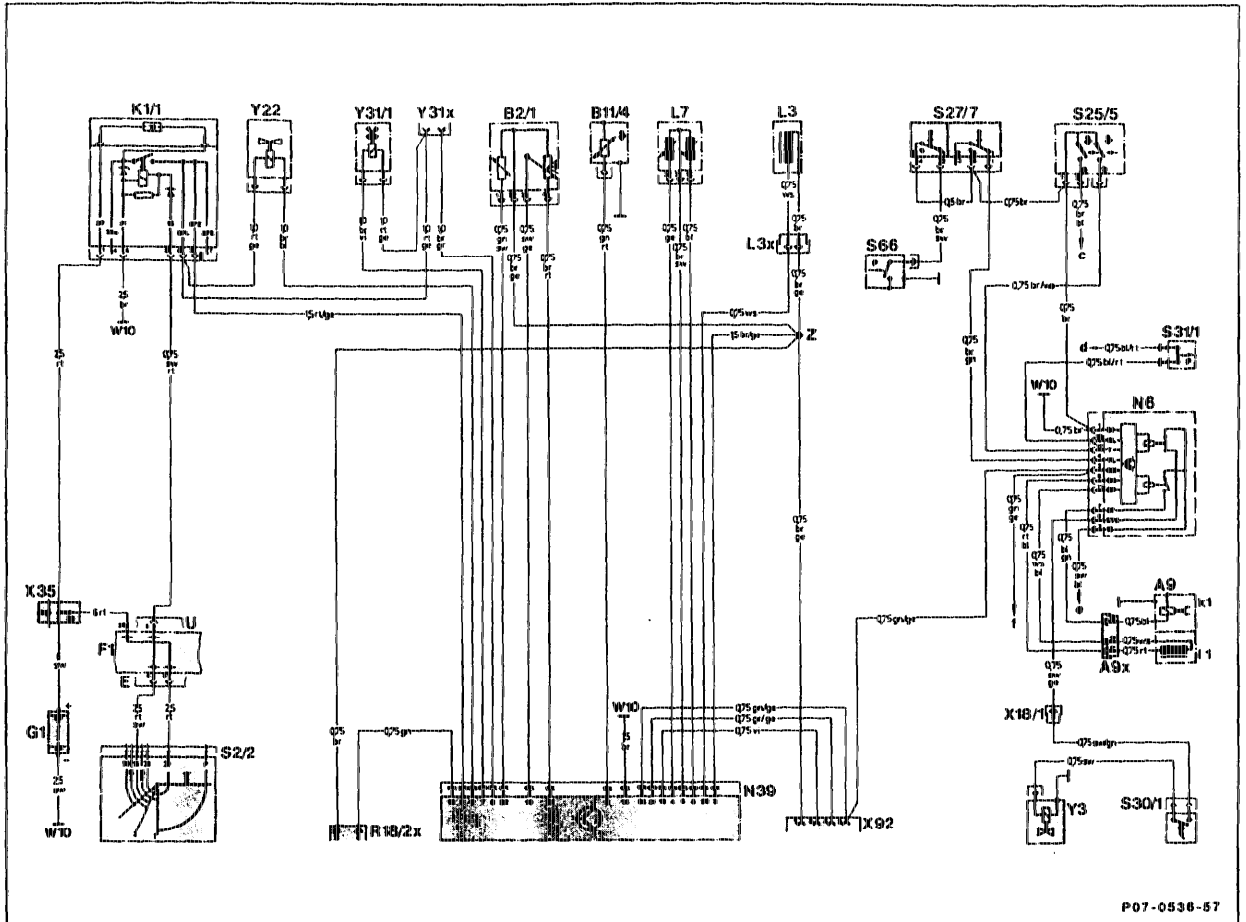
B2/1	Air flow sensor potentiometer with intake air temperature sensor (EDS)	R18/2x	Plug connection, reference resistor
B11/4	Coolant temperature sensor, electronic diesel system	S27/7	Microswitch, charge pressure cutoff
F1	Electrical centre	Y22	ELR actuator
E	Electrical centre/start switch 8-pin (connector E)	Y31/1	Vacuum transducer, (ARF)
U	Electrical centre/8-pin (connector U)	Y31x	Plug connection, vacuum transducer
G1	Battery	W10	Battery ground
K1/1	Relay, overvoltage protection 87E/87L (7-pin)	X35	Terminal block, terminal 30/terminal 61 (battery)
L3	Engine speed sensor, starter ring gear	X92	Test connection for diagnostics 8-pin (pulse readout)
L3x	Plug connection, engine speed sensor, starter ring gear	Z	Sleeve terminal (solder connection in wiring harness)
L7	Control rod travel sensor	a	Relay N15 kickdown cutoff, contact 5
N39	Control unit (EDS)		



P07-0537-59

Wiring diagram electronic diesel system Engines 602.96, 603.96 (A) (J) (FIN) Model 124 without refrigerant compressor, Model Year 1989

B2/1	Air flow sensor potentiometer with intake air temperature sensor (EDS)	Y22	ELR actuator
B11/4	Coolant temperature sensor (EDS)	Y31/1	Vacuum transducer, (ARF)
F1	Fuse and relay box	W10	Battery ground
G1	Battery	X4	Terminal block, terminal 30 fuse and relay box
K1/1	Relay, overvoltage protection 87E/87L (7-pin)	X26	Plug connection, interior/engine
L3	Engine speed sensor, starter ring gear	X35	Terminal block, terminal 30/terminal 61 (battery)
L3x	Plug connection, engine speed sensor, starter ring gear	X92	Test connection for diagnostics 8-pin (pulse readout)
L7	Control rod travel sensor	Z	Sleeve terminal (solder connector in wiring harness)
N39	Control unit (EDS)	a	Relay, kickdown cutoff, contact 2
R18/2x	Plug connection, reference resistor		
S2/2	Glow start switch		



P07-0536-57

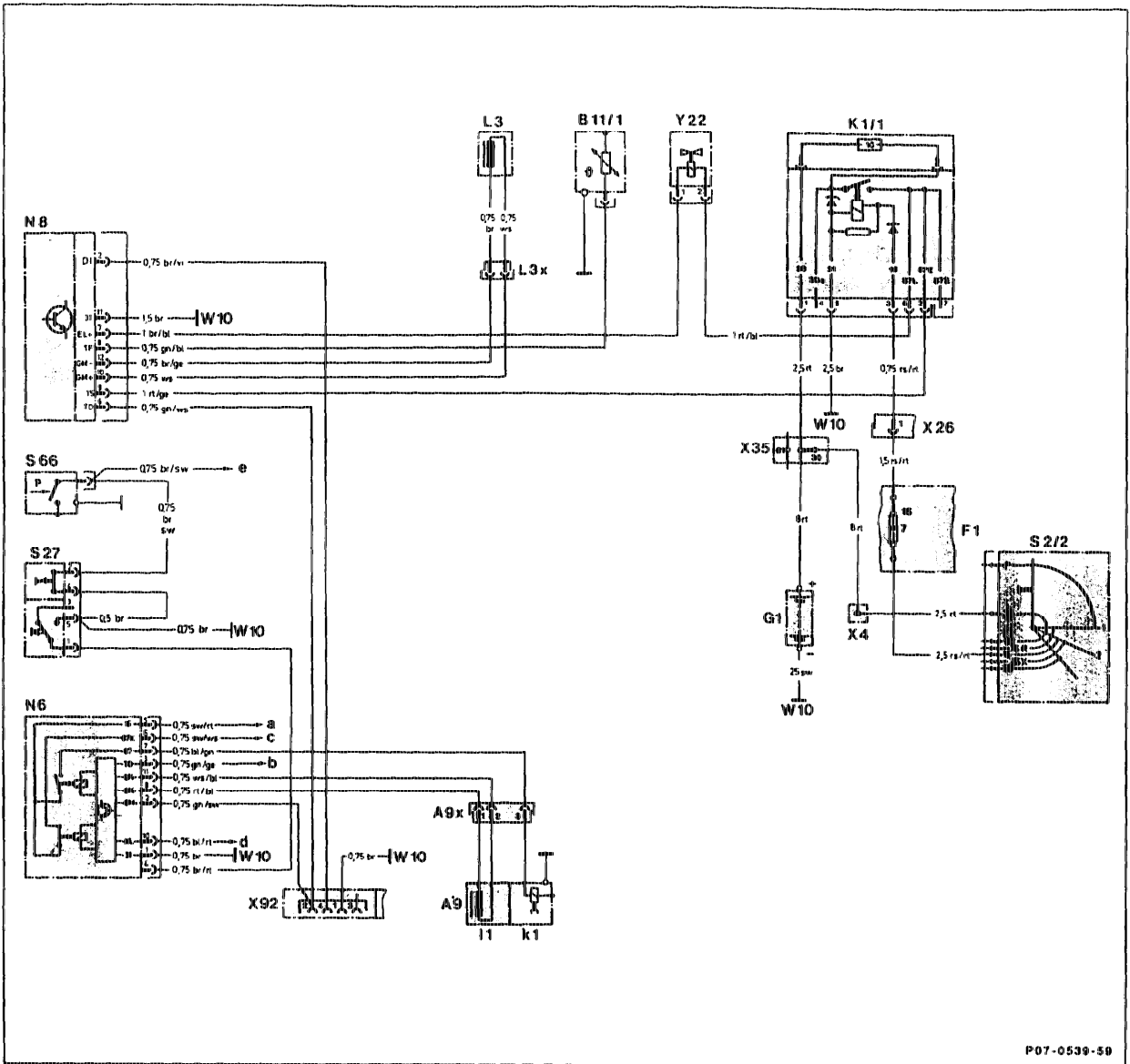
Wiring diagram electronic diesel system Engine 602.961 (A) (J) (FIN) Model 201 with refrigerant compressor, Model Year 1989

A9	Refrigerant compressor	S66	Switch, engine overload protection
A9x	Plug connection, refrigerant compressor	W10	Battery ground
B2/1	Air flow sensor potentiometer with intake air temperature sensor, electronic diesel system	X18/1	Plug connection, taillamp wiring harness/compressor wiring harness
B11/4	Coolant temperature sensor (EDS)	X35	Terminal block, terminal 30/terminal 61 (battery)
F1	Electrical centre	X92	Test connection for diagnostics 8-pin (pulse readout)
E	Electrical centre/start switch 8-pin (connector E)	Y3	Switchover valve, automatic transmission
U	Electrical centre/engine 8-pin (connector U)	Y22	Actuator, electronic idle speed control
G1	Battery	Y31/1	Vacuum transducer (ARF)
K1/1	Relay, overvoltage protection 87E/87L (7-pin)	Y31x	Plug connection, vacuum transducer
L3	Engine speed sensor, starter ring gear	X35	Terminal block, terminal 30/terminal 61 (battery)
L3x	Plug connection, engine speed sensor, starter ring gear	X92	Test connection for diagnostics 8-pin (pulse readout)
L7	Control rod travel sensor	Z	Sleeve terminal (soldered connector in wiring harness)
N6	Control unit, compressor cutoff	a	To terminal block X35, terminal 30/61
N39	Control unit (EDS)	b	To electrical centre connector U contact 5
R18/2x	Plug connection, reference resistor	c	To relay, double auxiliary fan (K8/1) contact 5
S25/5	Temperature switch 105 °C/115 °C auxiliary fan 2nd stage/emergency stop	d	To electrical centre connector W contact 4
S27/7	Microswitch, charge pressure cutoff	e	To relay, double auxiliary fan (K8/1) contact 4
S30/1	Kick-down switch	f	To tachometer (A1p7)
S31/1	Pressure switch, refrigerant compressor, OFF 2.0/30/ON 2.6/22		

Note

Ground points not shown go to engine ground or battery ground.





P07-0539-59

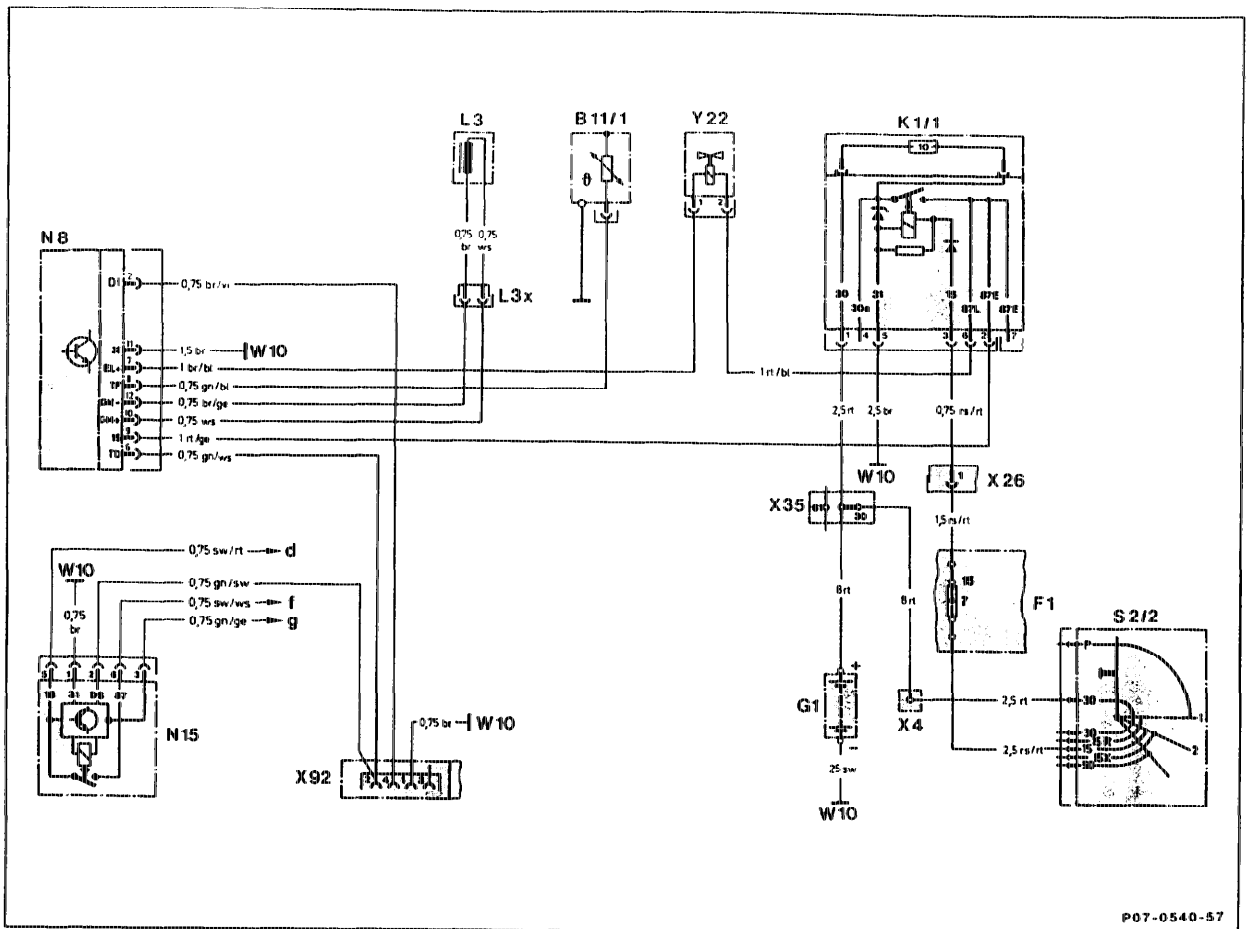
Wiring diagram Engines 602.962, 603.961 Standard Model 124 with refrigerant compressor,
as of start of production

A9	Refrigerant compressor	N8	Control unit, idle speed control
A9k1	Electromagnetic clutch, refrigerant compressor	S2/2	Glow start switch
A9l1	Speed sensor, refrigerant compressor	S27	A/C compressor/charge pressure cut-out microswitch
A9x	Plug connection, refrigerant compressor	S66	Switch, engine overload protection
B11/1	Coolant temperature sensor, idle speed control	X92	Test connection for diagnostics (8-pin)
F1	Electrical centre	Y22	ELR actuator
F1/E	Electrical centre, contacts 6 and 8	W10	Battery ground
F1/U	Electrical centre, contact 6	X35	Plug connection, terminal 30/terminal 61 (battery)
G1	Battery	a	X26 plug connection, interior/engine contact 2
K1/1	Relay, overvoltage protection	b	X26 plug connection, interior/engine contact 2
L3	Engine speed sensor, starter ring gear	c	X26 plug connection, interior/engine contact 9
L3x	Plug connection, engine speed sensor, starter ring gear	d	Pressure switch, refrigerant compressor S31/1
N6	Control unit, compressor cutoff	e	Switchover valve, Y30 engine overload protection

Note

Ground points not shown go to engine ground or battery ground.





P07-0540-57

Wiring diagram Engines 602.962, 603.961 Standard Model 124 without refrigerant compressor, as of start of production

B11/1	Coolant temperature sensor, idle speed control	N8	Control unit, idle speed control
F1	Electrical centre	N15	Relay, kick-down cutoff
F1/E	Electrical centre, contact 6 and 8	S2/2	Glow start switch
F1/U	Electrical centre, contact 6	W10	Battery ground
G1	Battery	X92	Test connection for diagnostics (8-pin)
K1/1	Relay, overvoltage protection	Y22	Actuator, idle speed control
L3	Engine speed sensor, starter ring gear	d	X26 plug connection, interior/engine contact 2
L3x	Plug connection, engine speed sensor, starter ring gear	f	X26 plug connection, interior/engine contact 9
		g	X26 plug connection, interior/engine contact 6

Note

Ground points not shown go to engine ground or battery ground.