

Electrical System

Job No.

54-0

A. General

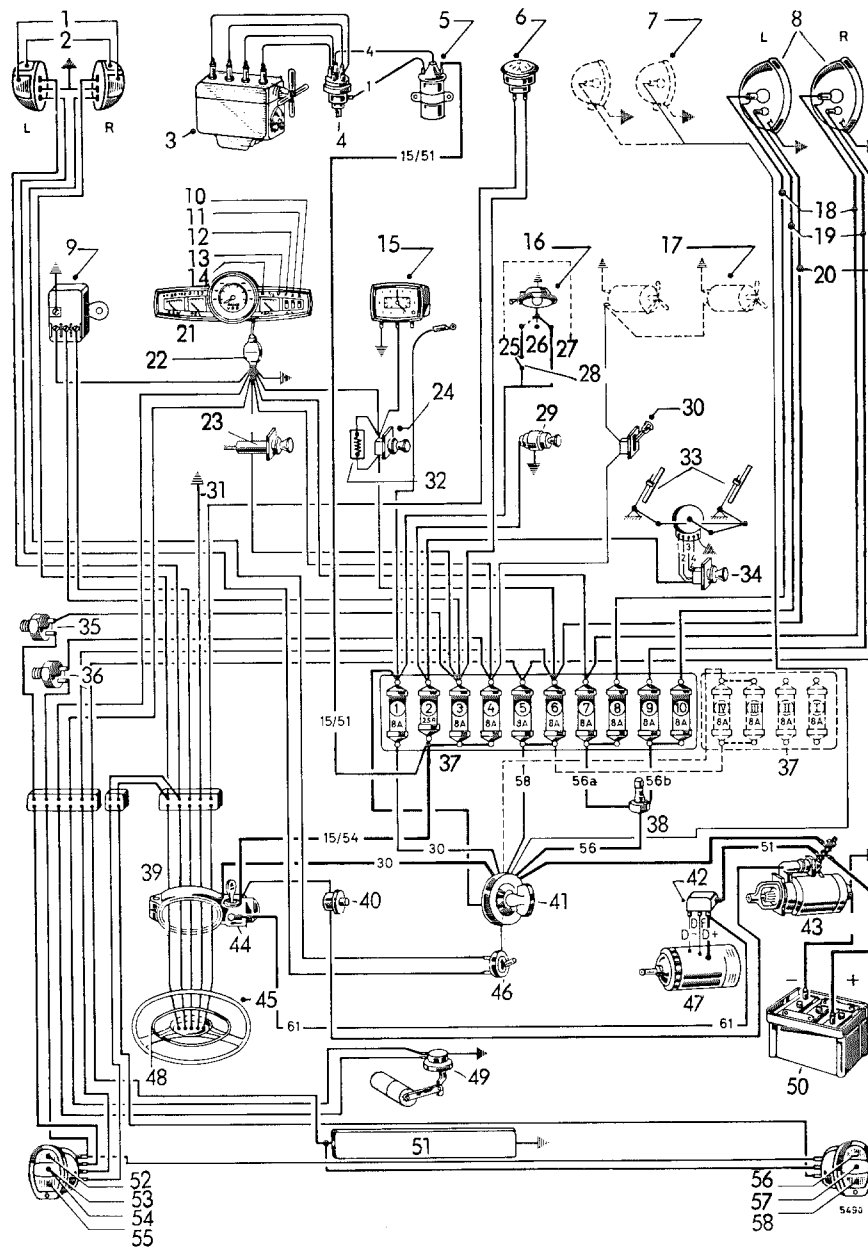
On Models 180 to 220 SE the electrical system is essentially the same as on Model 190 but contrary to the other models the voltage of the electrical system on Model 180 is 6 volts.

B. Bulbs

Model		180	180 a, 180 b, 180 D, 180 Db, 190 D, 190 Db, 190 SL, 219, 220 a, 220 S, 220 SE
Operating voltage	volts	6	12
Headlight (symmetrical)	watts	35/35	35/35
Headlight (asymmetrical)	watts	45/40	45/40
Parking light	watts	5	5
Fog light	watts	35	35
Stop light	watts	15	15
Tail light	watts	5	5
Flash signals	$\frac{\text{front}}{\text{rear}}$ watts	15	15
License-plate lighting	watts	5	10
Instrument and clock lights	watts	2	2
Pilot lights	watts	2	2
Interior lighting	watts	5	10
Clearance light	$\frac{\text{front}}{\text{rear}}$ watts	2	2
Charging light	watts	3	3
Reversing light	watts	10	15

C. Circuit Diagrams

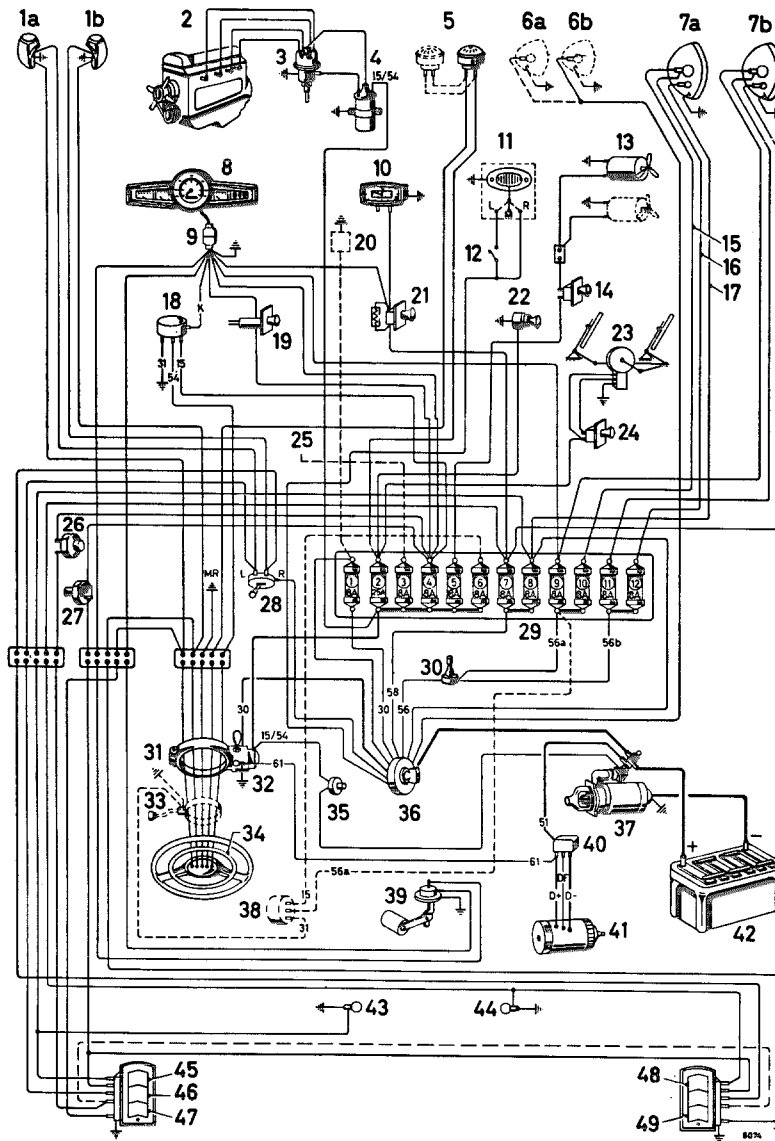
I. Model 180



The small numbers shown on the leads denote the numbers of the corresponding terminals.

- | | | |
|-----------------------------|-------------------------------------|--|
| 1 Flash signal | 21 Instrument cluster | 41 Rotary light switch with positions for clearance light and pull switch for fog lights |
| 2 Clearance light | 22 Coupling | 42 Regulator |
| 3 Engine | 23 Choke control | 43 Starter 6 volts |
| 4 Distributor | 24 Instrument lighting switch | 44 Charging light |
| 5 Ignition coil | 25 Left | 45 Steering wheel |
| 6 Horn | 26 Center | 46 Clearance light change-over switch |
| 7 Fog lights | 27 Right | 47 Generator 6 volts |
| 8 Headlights | 28 Door contact switch | 48 Horn ring and flash signal switch |
| 9 Flash signal mechanism | 29 Cigar lighter | 49 Fuel level indicator |
| 10 Flash signal pilot light | 30 Switch | 50 Battery 6 volts 84 Ah |
| 11 Choke control | 31 Ground, chassis | 51 License plate lighting |
| 12 Upper beam | 32 Dimmer resistance | 52 Stop light (left) |
| 13 Fuel gage | 33 Windshield wipers | 53 Reversing light |
| 14 Fuel reserve pilot light | 34 Switch with limit stop mechanism | 54 Tail light |
| 15 Clock | 35 Reversing light switch | 55 Flash signal |
| 16 Roof light with switch | 36 Stop light switch | 56 Stop light (right) |
| 17 Defroster blower | 37 Fuses | 57 Tail light |
| 18 Upper beam | 38 Foot dimmer switch | 58 Flash signal |
| 19 Lower beam | 39 Steering lock | |
| 20 Parking light | 40 Starter push-button switch | |

II. Model 180 a



The small numbers shown on the leads denote the numbers of the corresponding terminals.

- | | | |
|--|--|--|
| 1a Clearance light and flash signal, left | 17 Cable for parking light | 35 Starter button |
| 1b Clearance light and flash signal, right | 18 Flash signal mechanism | 36 Rotary light switch with positions for clearance light and pull switch for fog lights |
| 2 Engine | 19 Choke control | 37 Starter 12 v |
| 3 Distributor | 20 Socket (optional) | 38 Upper beam flash signal mechanism (optional) |
| 4 Ignition coil | 21 Instrument lighting switch | 39 Fuel level indicator |
| 5 Horn | 22 Cigar lighter | 40 Regulator |
| 6a Fog light, left | 23 Windshield wiper | 41 Generator 12 v |
| 6b Fog light, right | 24 Windshield wiper switch | 42 Battery 12 v |
| 7a Headlight, left | 25 Free for optional extra | 43 License plate lighting, left |
| 7b Headlight, right | 26 Reversing light switch | 44 License plate lighting, right |
| 8 Instrument cluster | 27 Stop light switch | 45 Tail, stop, clearance light, left |
| 9 Coupling | 28 Clearance light changeover switch | 46 Reversing light, left |
| 10 Clock | 29 Fuses | 47 Flash signal, left |
| 11 Interior light with switch | 30 Foot dimmer switch | 48 Tail, stop, clearance light, right |
| 12 Door contact | 31 Ignition switch and steering lock | 49 Flash signal, right |
| 13 Heater blower motors (optional) | 32 Charging light | |
| 14 Heater blower motor switch | 33 Upper beam flash signal switch (optional) | |
| 15 Cable for upper beam | 34 Horn ring and flash signal switch | |
| 16 Cable for lower beam | | |

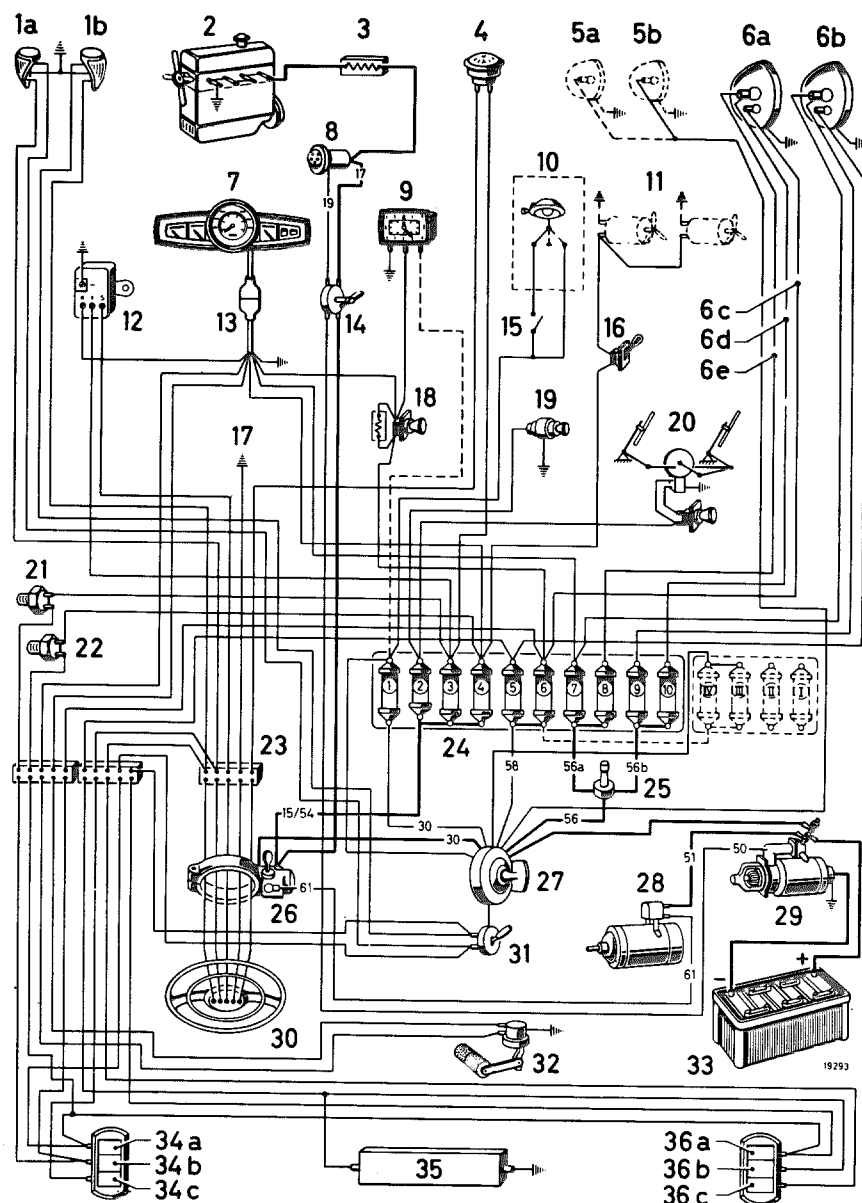
This is a detailed wiring diagram for a car stereo system. The diagram shows the following components and their connections:

- 1a, 1b:** Power input terminals at the top left.
- 2:** A fuse block or relay unit.
- 3, 4:** Small electronic components or relays.
- 5:** A power source, likely the battery.
- 6a, 6b:** Small components, possibly capacitors or diodes.
- 7a, 7b:** Power input terminals at the top right.
- 8:** A speedometer or tachometer.
- 9:** A small component, possibly a diode or capacitor.
- 10:** A small component, possibly a diode or capacitor.
- 11:** A small component, possibly a diode or capacitor.
- 12:** A small component, possibly a diode or capacitor.
- 13:** A small component, possibly a diode or capacitor.
- 14:** A small component, possibly a diode or capacitor.
- 15:** A small component, possibly a diode or capacitor.
- 16, 17, 18:** Power input terminals on the right side.
- 19:** A small component, possibly a diode or capacitor.
- 20:** A small component, possibly a diode or capacitor.
- 21:** A small component, possibly a diode or capacitor.
- 22:** A small component, possibly a diode or capacitor.
- 23:** A small component, possibly a diode or capacitor.
- 24:** A small component, possibly a diode or capacitor.
- 25:** A small component, possibly a diode or capacitor.
- 26:** A small component, possibly a diode or capacitor.
- 27:** A small component, possibly a diode or capacitor.
- 28:** A small component, possibly a diode or capacitor.
- 29:** A small component, possibly a diode or capacitor.
- 30:** A small component, possibly a diode or capacitor.
- 31:** A small component, possibly a diode or capacitor.
- 32:** A small component, possibly a diode or capacitor.
- 33:** A small component, possibly a diode or capacitor.
- 34:** A small component, possibly a diode or capacitor.
- 35:** A small component, possibly a diode or capacitor.
- 36:** A small component, possibly a diode or capacitor.
- 37:** A small component, possibly a diode or capacitor.
- 38:** A small component, possibly a diode or capacitor.
- 39:** A small component, possibly a diode or capacitor.
- 40:** A small component, possibly a diode or capacitor.
- 41:** A small component, possibly a diode or capacitor.
- 42:** A small component, possibly a diode or capacitor.
- 43:** A small component, possibly a diode or capacitor.
- 44:** A small component, possibly a diode or capacitor.
- 45, 46, 47:** Power input terminals at the bottom left.
- 48, 49:** Power input terminals at the bottom right.

The diagram includes a power distribution block (2) and a fuse block (42). It also shows a speedometer (8) and a tachometer (9). The components are connected to a power source (5) and a battery (42). The diagram is a detailed representation of the electrical system, showing the flow of current from the power source through the various components.

1a Clearance light and flash signal, left	17 Cable for lower beam	35 Starter button
1b Clearance light and flash signal, right	18 Cable for parking light	36 Rotary light switch with positions for clearance light and pull switch for fog lights
2 Engine	19 Flash signal mechanism	37 Starter 12 v
3 Distributor	20 Choke control	38 Upper beam flash signal mechanism
4 Ignition coil	21 Instrument lighting switch	39 Fuel level indicator
5 Horn	22 Cigar lighter	40 Regulator
6a Fog light, left } (optional)	23 Windshield wiper with switch	41 Generator 12 v
6b Fog light, right }	24 Foot pump for windshield washer with windshield wiper switch	42 Battery 12 v, 56 Ah
7a Headlight, left	25 Free for optional extras	43 License plate and trunk compartment lighting, left
7b Headlight, right	26 Reversing light switch	44 License plate and trunk compartment lighting, right
8 Instrument cluster	27 Stop light switch	45 Tail, stop, clearance light, left
9 Coupling	28 Cable connector	46 Reversing light, left
10 Socket (optional)	29 Fuses	47 Flash signal, left
11 Clock	30 Foot dimmer switch	48 Tail, stop, clearance light, right
12 Interior light with switch	31 Ignition switch and steering lock	49 Flash signal, right
13 Door contact	32 Charging light	
14 Heater blower motors (optional)	33 Flash signal switch	
15 Heater blower motor switch	34 Horn ring	
16 Cable for upper beam		

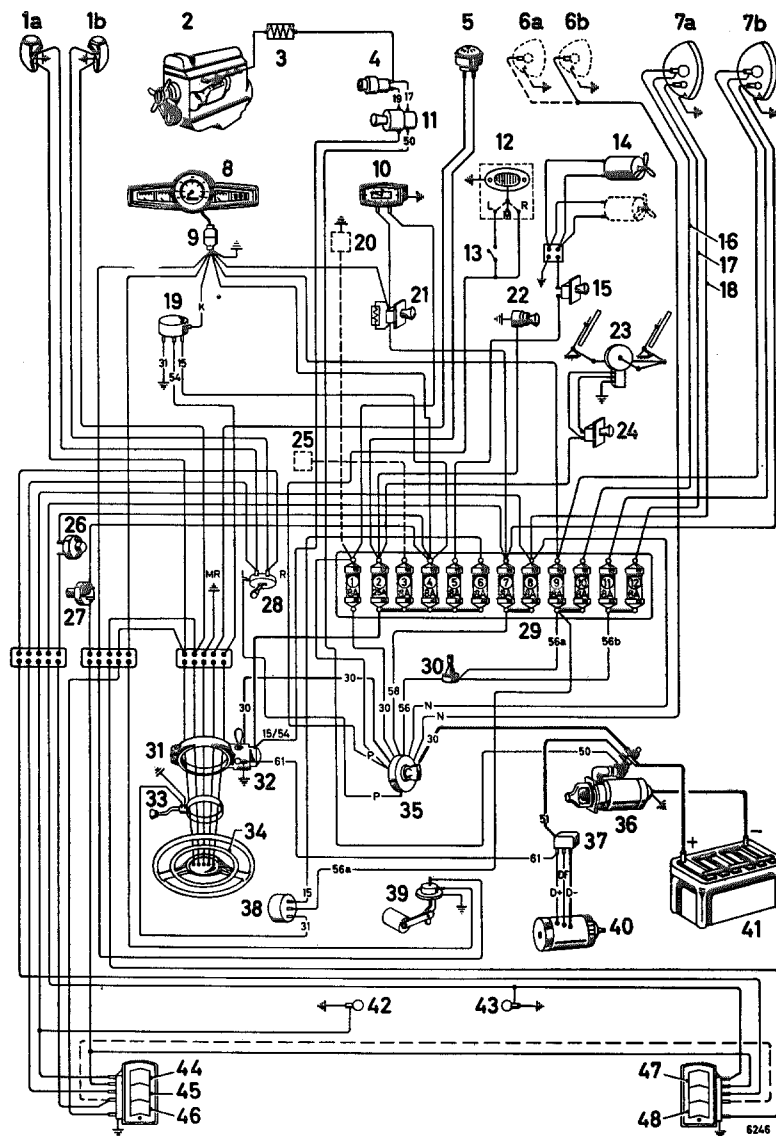
IV. Model 180 D



The small numbers shown on the leads denote the numbers of the corresponding terminals.

- | | | |
|------------------------------------|--|--|
| 1a Flash signal, left | 13 Coupling | 27 Rotary light switch with positions for clearance light and pull switch for fog lights |
| 1b Flash signal, right | 14 Glow plug starter switch | 28 Generator 12 v with regulator |
| 2 Engine | 15 Door contact | 29 Starter 12 v |
| 3 Glow plug resistance | 16 Switch with pilot light for heater blower motors | 30 Steering wheel with horn ring and flash signal switch |
| 4 Horn | 17 Ground, chassis | 31 Clearance light changeover switch |
| 5a Fog light, left | 18 Switch for instrument lighting and dimmer resistance | 32 Fuel level indicator |
| 5b Fog light, right | 19 Cigar lighter | 33 Battery |
| 6a Headlight, left | 20 Windshield wiper and switch with limit stop mechanism | 34a Clearance and stop light, left |
| 6c Cable for parking light | 21 Reversing light switch | 34b Reversing light and tail light, left |
| 6d Cable for lower beam | 22 Stop light switch | 34c Flash signal, left |
| 6e Cable for upper beam | 23 Cable connector | 35 License plate lighting |
| 7 Instrument cluster | 24 Fuses | 36a Clearance and stop light, right |
| 8 Glow plug indicator resistor | 25 Foot dimmer switch | 36b Tail light, right |
| 9 Clock | 26 Steering lock with charging light | 36c Flash signal, right |
| 10 Roof light with switch | | |
| 11 Heater blower motors (optional) | | |
| 12 Flash signal mechanism | | |

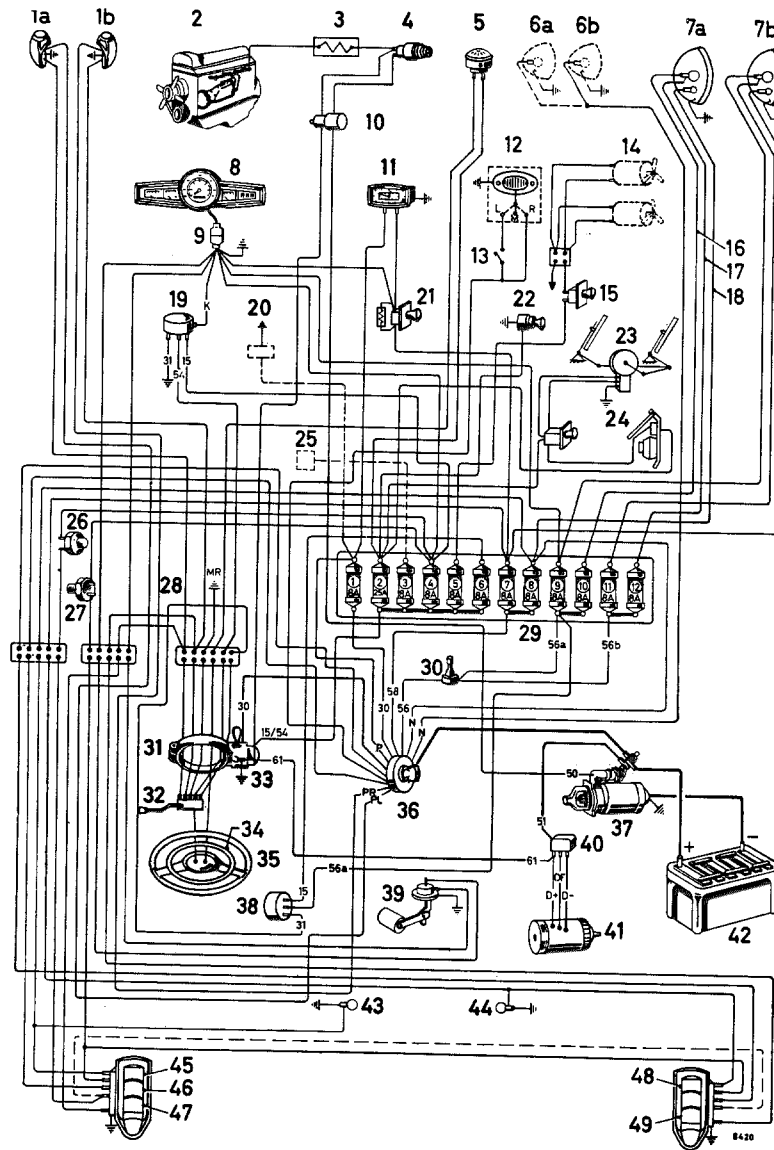
V. Model 190 D



The small numbers shown on the leads denote the numbers of the corresponding terminals.

- | | | |
|--|---|--|
| 1a Clearance light and flash signal, left | 17 Cable for lower beam | 35 Rotary light switch with positions for clearance light and pull switch for fog lights |
| 1b Clearance light and flash signal, right | 18 Cable for parking light | 36 Starter 12 v |
| 2 Engine with glow plugs | 19 Flash signal mechanism | 37 Regulator |
| 3 Glow plug resistance | 20 Socket (optional) | 38 Upper beam flash signal mechanism |
| 4 Glow plug indicator resistor | 21 Instrument lighting switch | 39 Fuel level indicator |
| 5 Horn | 22 Cigar lighter | 40 Generator 12 v |
| 6a Fog light, left | 23 Windshield wiper | 41 Battery |
| 6b Fog light, right | 24 Windshield wiper switch | 42 License plate and trunk compartment lighting, left |
| 7a Headlight, left | 25 Free for optional extra | 43 License plate and trunk compartment lighting, right |
| 7b Headlight, right | 26 Reversing light switch | 44 Tail, stop, clearance light, left |
| 8 Instrument cluster | 27 Stop light switch | 45 Reversing light, left |
| 9 Coupling | 28 Clearance light changeover switch | 46 Flash signal, left |
| 10 Clock | 29 Fuses | 47 Tail, stop, clearance light, right |
| 11 Glow plug starter switch | 30 Foot dimmer switch | 48 Flash signal, right |
| 12 Interior light with switch | 31 Steering lock with glow plug and starter main switch | |
| 13 Door contact | 32 Charging light | |
| 14 Heater blower motors | 33 Upper beam flash signal switch | |
| 15 Heater blower motor switch | 34 Horn ring and flash signal switch | |
| 16 Cable for upper beam | | |

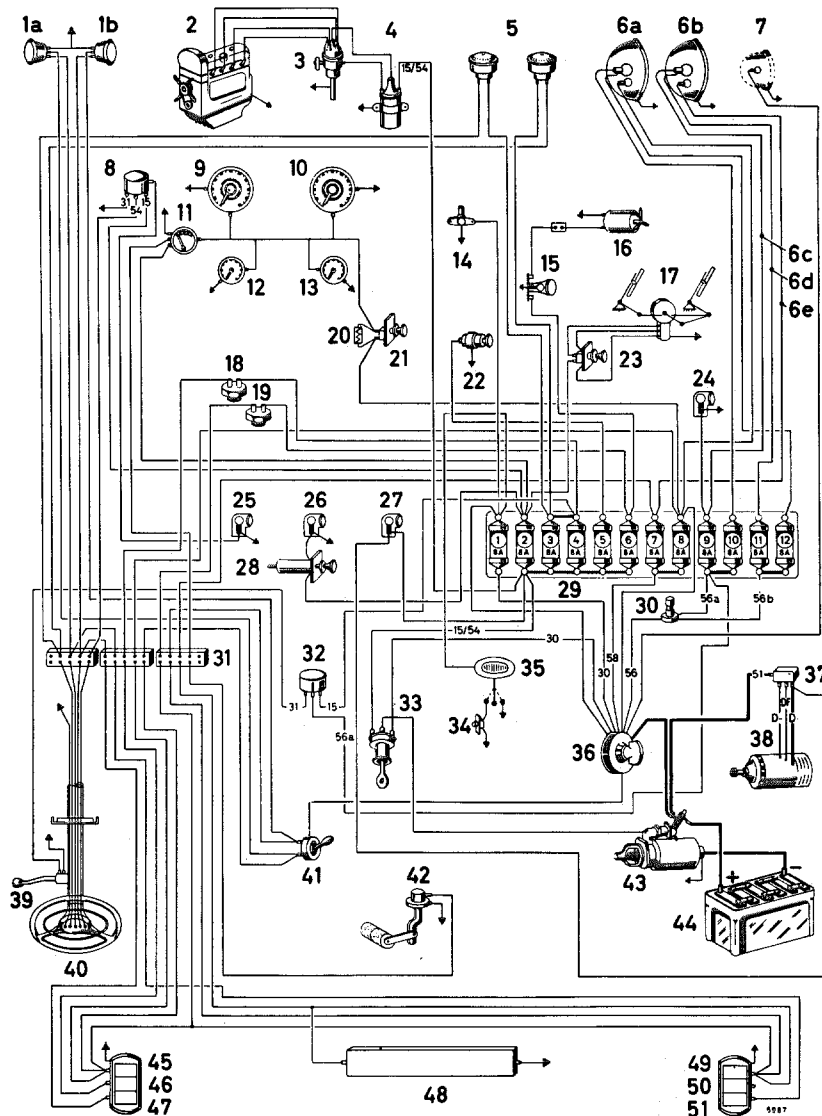
VI. Models 180 Db, 190 Db



The small numbers shown on the leads denote the numbers of the corresponding terminals.

- | | | |
|--|---|--|
| 1a Clearance light and flash signal, left | 17 Cable for lower beam | 35 Steering wheel |
| 1b Clearance light and flash signal, right | 18 Cable for parking light | 36 Rotary light switch with positions for clearance light and pull switch for fog lights |
| 2 Glow plugs (engine) | 19 Flash signal mechanism | 37 Starter 12 v |
| 3 Glow plug resistance | 20 Socket (optional) | 38 Upper beam flash signal mechanism |
| 4 Glow plug indicator resistor | 21 Instrument lighting switch | 39 Fuel level indicator |
| 5 Horn | 22 Cigar lighter | 40 Regulator |
| 6a Fog light, left } optional | 23 Windshield wiper with switch | 41 Generator |
| 6b Fog light, right } | 24 Foot pump for windshield washer with windshield wiper switch | 42 Battery 12 v, 56 Ah |
| 7a Headlight, left | 25 Free for optional extra | 43 License plate and trunk compartment lighting, left |
| 7b Headlight, right | 26 Reversing light switch | 44 License plate and trunk compartment lighting, right |
| 8 Instrument cluster | 27 Stop light switch | 45 Tail, stop, and clearance light, left |
| 9 Coupling | 28 Cable connector | 46 Reversing light, left |
| 10 Glow plug starter switch | 29 Fuses | 47 Flash signal, left |
| 11 Clock | 30 Foot dimmer switch | 48 Tail, stop, and clearance light, right |
| 12 Interior light with switch | 31 Steering lock | 49 Flash signal, right |
| 13 Door contact | 32 Flash signal switch | |
| 14 Heater blower motors (optional) | 33 Charging light | |
| 15 Heater blower motor switch | 34 Horn ring | |
| 16 Cable for upper beam | | |

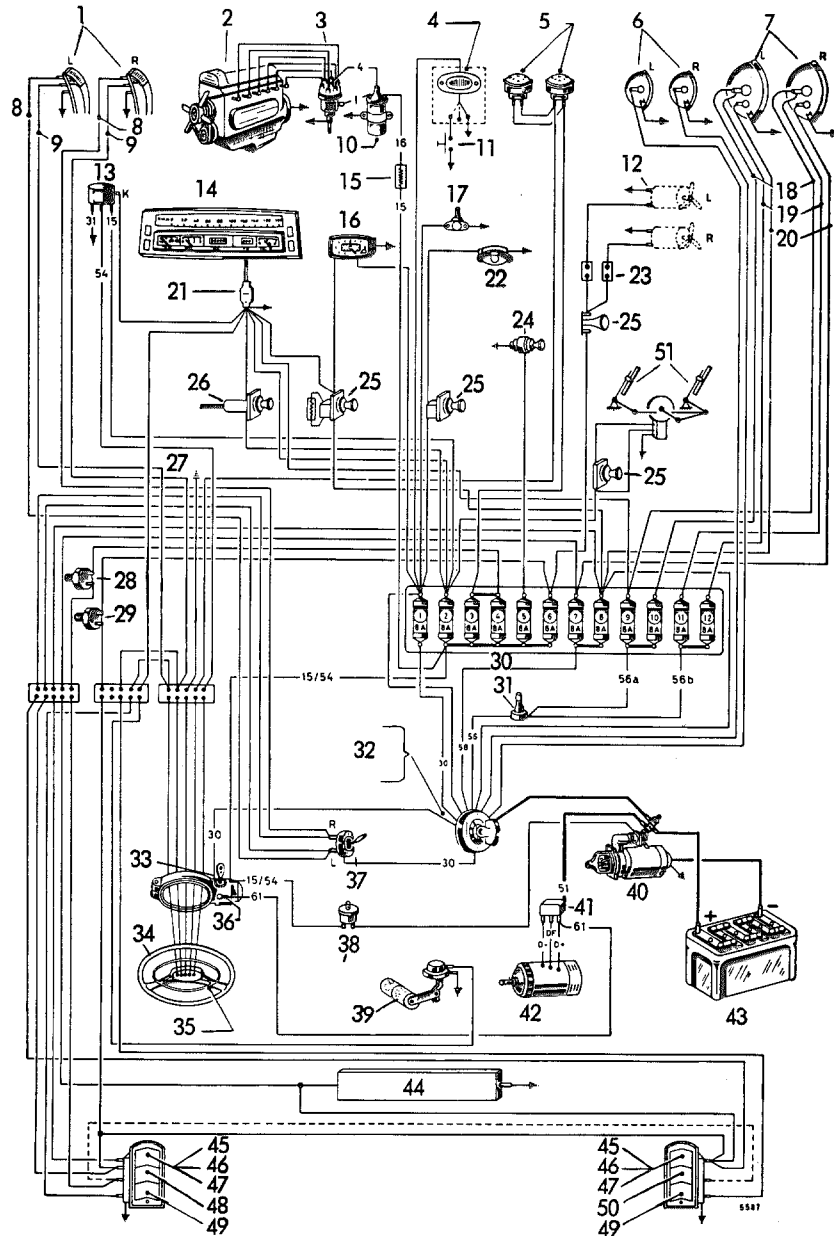
VII. Model 190 SL



The small numbers shown on the leads denote the numbers of the corresponding terminals.

- | | | |
|--|---|---|
| 1a Clearance light and flash signal, left | 16 Blower motor | 35 Interior light |
| 1b Clearance light and flash signal, right | 17 Windshield wiper | 36 Rotary light switch |
| 2 Engine | 18 Reversing light switch | 37 Regulator |
| 3 Distributor | 19 Stop light switch | 38 Generator |
| 4 Ignition coil | 20 Dimmer resistance | 39 Upper beam flash signal switch |
| 5 Horn | 21 Instrument lighting switch | 40 Steering wheel horn ring with flash signal contact |
| 6a Headlight, left | 22 Cigar lighter | 41 Clearance light changeover switch |
| 6b Headlight, right | 23 Push-pull switch for windshield wiper, two-speed | 42 Fuel level indicator |
| 6c Upper beam | 24 Upper beam pilot light | 43 Starter |
| 6d Lower beam | 25 Flash signal pilot light | 44 Battery |
| 6e Parking light | 26 Choke control pilot light | 45 Clearance, stop, and tail light, left |
| 7 Fog light | 27 Charging light | 46 Reversing light |
| 8 Flash signal mechanism | 28 Choke control | 47 Flash signal, left |
| 9 Revolution counter | 29 Fuses | 48 License plate and trunk compartment lighting |
| 10 Speedometer | 30 Foot dimmer switch | 49 Clearance, stop, and tail light, right |
| 11 Fuel reserve gage | 31 Cable connector | 50 Free for reversing light on right-hand drive cars |
| 12 Oil pressure gage | 32 Upper beam flash signal mechanism | 51 Flash signal, right |
| 13 Cooling water thermometer | 33 Ignition and starter switch | |
| 14 Socket | 34 Door contact | |
| 15 Heater blower switch | | |

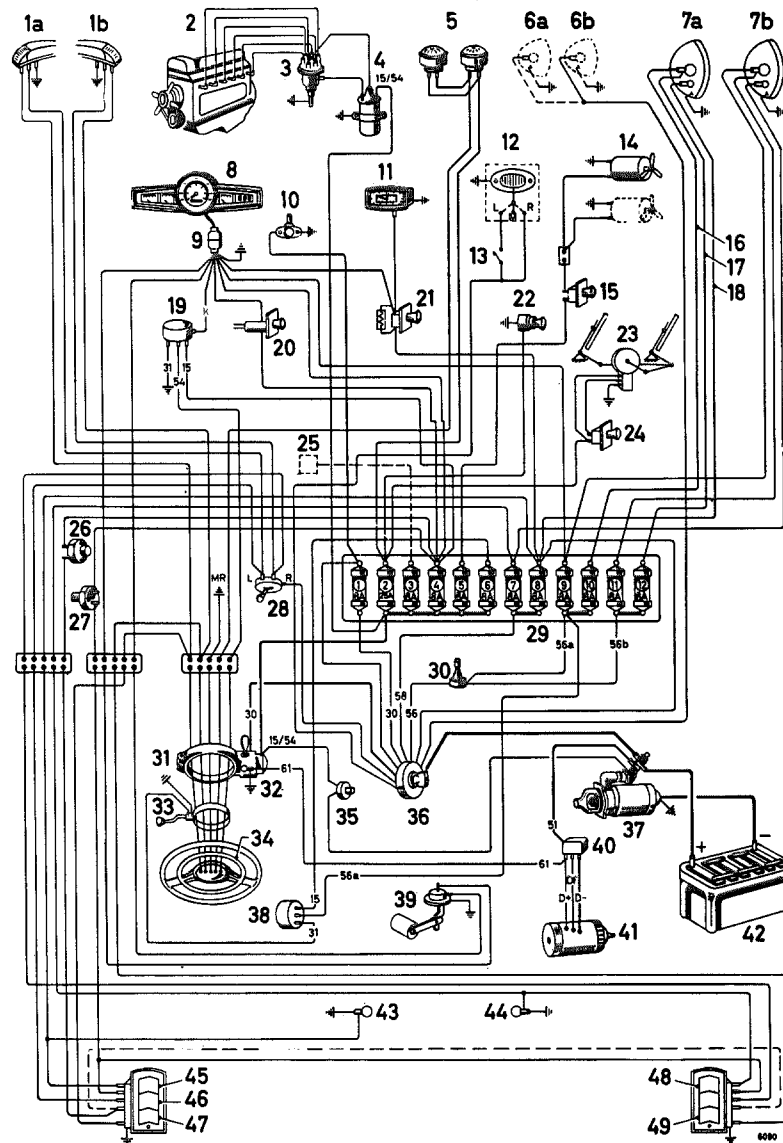
VIII. Model 220 a



The small numbers shown on the leads denote the numbers of the corresponding terminals.

- | | | |
|--------------------------------------|--|---|
| 1 Clearance lights and flash signals | 20 Parking light | 36 Charging light |
| 2 Engine | 21 Coupling | 37 Clearance light change-over switch |
| 3 Distributor | 22 Roof light | 38 Starter button |
| 4 Reading light | 23 Cable connector | 39 Fuel level indicator |
| 5 Horn | 24 Cigar lighter | 40 Starter 12 volts |
| 6 Fog lights | 25 Switch | 41 Regulator |
| 7 Headlights | 26 Choke control | 42 Generator 12 volts |
| 8 Clearance light | 27 Ground, chassis | 43 Battery 12 volts |
| 9 Flash signal | 28 Reversing light switch | 44 License plate and trunk compartment lighting |
| 10 Ignition coil | 29 Stop light switch | 45 Tail light |
| 11 Door contact | 30 Fuses | 46 Stop light |
| 12 Heater blower motors | 31 Foot dimmer switch | 47 Clearance light |
| 13 Flash signal mechanism | 32 Rotary light switch with positions for clearance light and pull switch for fog lights | 48 Reversing light |
| 14 Instrument cluster | 33 Steering lock | 49 Flash signal |
| 15 Series resistance | 34 Steering wheel | 50 Free for reversing light (right-hand drive) |
| 16 Clock | 35 Horn ring and flash signal switch | 51 Windshield wipers |
| 17 Socket | | |
| 18 Upper beam | | |
| 19 Lower beam | | |

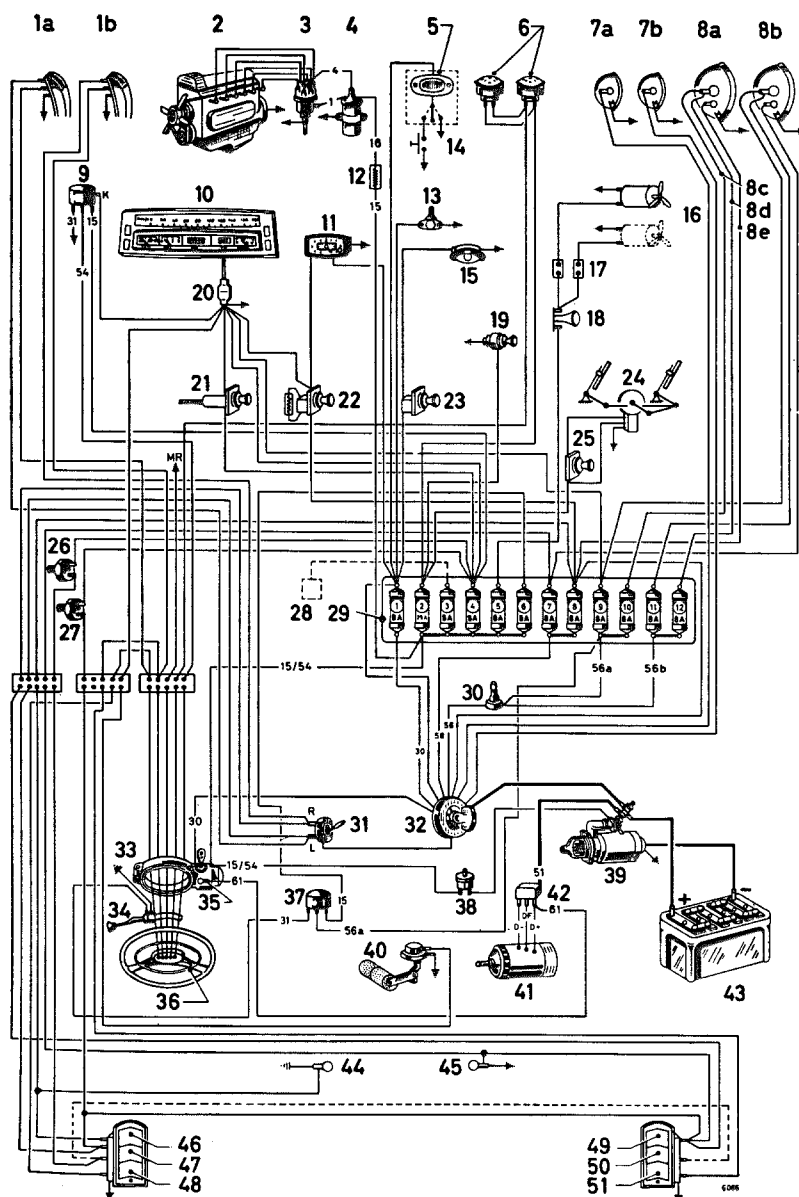
IX. Model 219



The small numbers shown on the leads denote the numbers of the corresponding terminals.

- | | | |
|--|--|--|
| 1a Clearance light and flash signal, left | 17 Cable for lower beam | 35 Starter button |
| 1b Clearance light and flash signal, right | 18 Cable for parking light | 36 Rotary light switch with positions for clearance light and pull switch for fog lights |
| 2 Engine | 19 Flash signal mechanism | 37 Starter 12 v |
| 3 Distributor | 20 Choke control | 38 Upper beam flash signal mechanism |
| 4 Ignition coil | 21 Instrument lighting switch | 39 Fuel level indicator |
| 5 Horn | 22 Cigar lighter | 40 Regulator |
| 6a Fog light, left | 23 Windshield wiper | 41 Generator 12 v |
| 6b Fog light, right | 24 Windshield wiper cable | 42 Battery 12 v, 56 Ah |
| 7a Headlight, left | 25 Cable for automatic clutch (optional) | 43 License plate lighting, left |
| 7b Headlight, right | 26 Reversing light switch | 44 License plate lighting, right |
| 8 Instrument cluster | 27 Stop light switch | 45 Tail, stop, clearance light, left |
| 9 Coupling | 28 Clearance light changeover switch | 46 Reversing light, left |
| 10 Socket | 29 Fuses | 47 Flash signal, left |
| 11 Clock | 30 Foot dimmer switch | 48 Tail, stop, clearance light, right |
| 12 Interior light with switch | 31 Ignition switch and steering lock | 49 Flash signal, right |
| 13 Door contact | 32 Charging light | |
| 14 Heater blower motors | 33 Upper beam flash signal switch | |
| 15 Switch | 34 Horn ring and flash signal switch | |
| 16 Cable for upper beam | | |

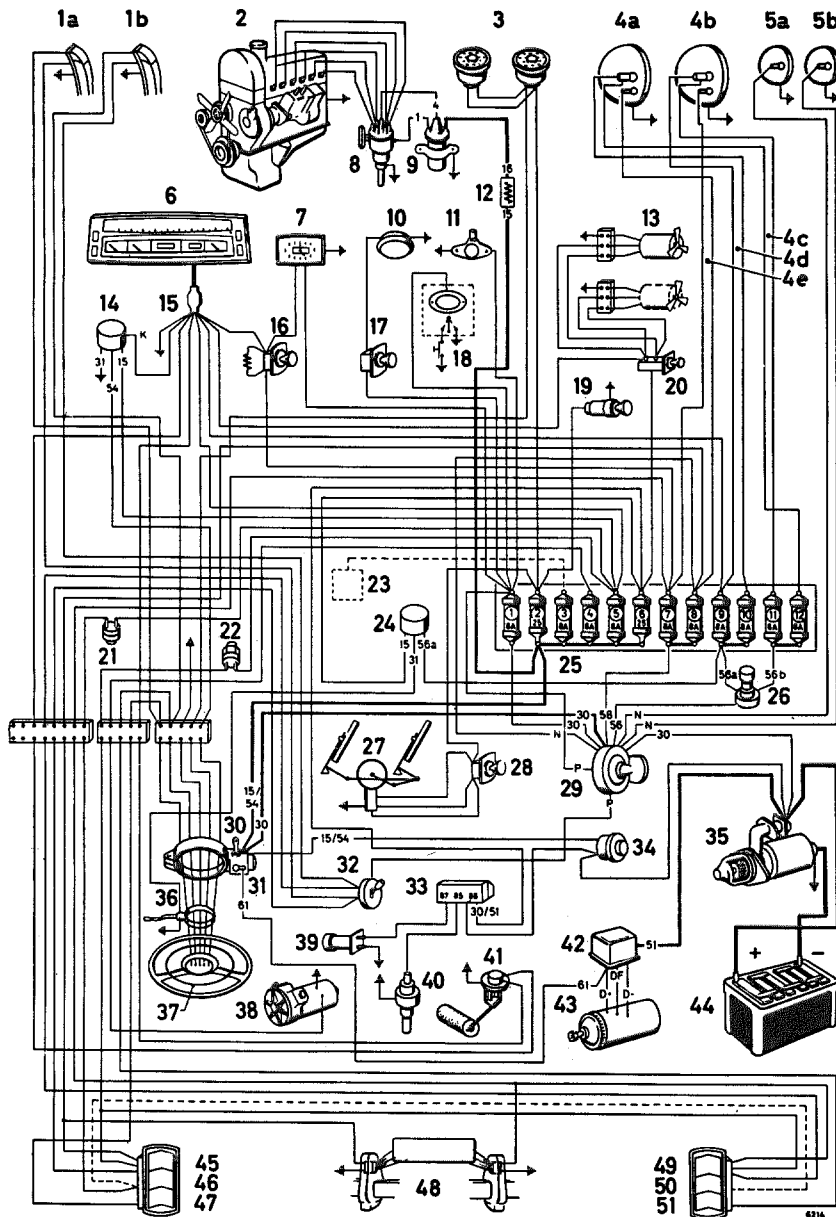
X. Model 220 S



The small numbers shown on the leads denote the numbers of the corresponding terminals.

- | | | |
|--|--|--|
| 1a Clearance light and flash signal, left | 16 Heater blower motors, left, right (optional) | 34 Upper beam flash signal switch |
| 1b Clearance light and flash signal, right | 17 Cable connector | 35 Charging light |
| 2 Engine | 18 Heater blower motor switch | 36 Horn ring and flash signal switch |
| 3 Distributor | 19 Cigar lighter | 37 Upper beam flash signal mechanism |
| 4 Ignition coil | 20 Coupling | 38 Starter push-button switch |
| 5 Reading light | 21 Choke control | 39 Starter 12 v |
| 6 Horns | 22 Instrument lighting switch | 40 Fuel level indicator |
| 7a Fog light, left | 23 Roof light switch | 41 Generator 12 v |
| 7b Fog light, right | 24 Windshield wiper | 42 Regulator |
| 8a Headlight, left | 25 Windshield wiper switch | 43 Battery 12 v |
| 8b Headlight, right | 26 Reversing light switch | 44 License plate and trunk compartment lighting, left |
| 8c Cable for upper beam | 27 Stop light switch | 45 License plate and trunk compartment lighting, right |
| 8d Cable for lower beam | 28 Cable for automatic clutch (optional) | 46 Tail, stop, and clearance light, left |
| 8e Cable for parking light | 29 Fuses | 47 Reversing light, left |
| 9 Flash signal mechanism | 30 Foot dimmer switch | 48 Flash signal, left |
| 10 Instrument cluster | 31 Clearance light changeover switch | 49 Tail, stop, and clearance light, right |
| 11 Clock | 32 Rotary light switch with positions for clearance light and pull switch for fog lights | 50 Free for reversing light on right-hand drive cars |
| 12 Series resistance | 33 Ignition switch and steering lock | 51 Flash signal, right |

XI. Model 220 SE



The small numbers shown on the leads denote the numbers of the corresponding terminals.

- | | | |
|--|--|--|
| 1a Flash signal, left | 15 Coupling | 32 Clearance light changeover switch |
| 1b Flash signal, right | 16 Instrument lighting switch (with dimmer resistance) | 33 Relay, automatic starter aid |
| 2 Engine | 17 Roof light switch | 34 Starter push-button switch |
| 3 Horn | 18 Reading light with door contact | 35 Starter |
| 4a Headlight, left | 19 Cigar lighter | 36 Upper beam flash signal switch |
| 4b Headlight, right | 20 Heater blower motor switch | 37 Horn ring and flash signal switch |
| 4c Cable for lower beam | 21 Reversing light switch | 38 Fuel feed pump |
| 4d Cable for upper beam | 22 Stop light switch | 39 Magnet for mixture enrichment |
| 4e Cable for parking light | 23 Cable for hydraulic automatic clutch (optional) | 40 Fuel level indicator |
| 5a Fog light, left | 24 Upper beam flash signal mechanism | 41 Fuel level indicator |
| 5b Fog light, right | 25 Fuses | 42 Regulator |
| 6 Instrument cluster | 26 Foot dimmer switch | 43 Generator |
| 7 Clock | 27 Windshield wiper | 44 Battery |
| 8 Distributor | 28 Windshield wiper switch | 45 Tail, stop, clearance light, left |
| 9 Ignition coil | 29 Rotary light switch with positions for clearance light and pull switch for fog lights | 46 Reversing light |
| 10 Roof light | 30 Steering lock | 47 Flash signal, left |
| 11 Socket | 31 Charging light | 48 License plate lighting |
| 12 Series resistance | | 49 Tail, stop, clearance light, right |
| 13 Heater blower motors, left (right optional) | | 50 Free for reversing light on right-hand drive cars |
| 14 Flash signal mechanism | | 51 Flash signal, right |

D. Connections at Fuse Box

I. Model 180

Fuse No.	Fuse element amp.	Lead	Consumer units	Remarks
1	8	30	Clearance lights, roof light, (electric clock)	Permanently live circuit
2	25	54	Cigar lighter, wipers	Can be switched off by ignition starter switch
3	8	54	Choke control pilot light, flash signals, horn, reversing light	
4	8	54	Stop light, fuel gage, (defroster blower)	
5	8	58	License plate light, tail light, right, parking light, right	
6	8	58	Tail light, left, parking light, left, instrument lighting	
7	8	56 a	Upper beam, right, upper beam pilot light	Can be switched over by foot dimmer switch
8	8	56 a	Upper beam, left	
9	8	56 b	Lower beam, right	
10	8	56 b	Lower beam, left	

The units in brackets are optional and are installed only if ordered specially.

II. Models 180 a, 180 b

Fuse No.	Fuse element amp.	Lead	Consumer units	Remarks
1	8	30	Clearance lights, roof light, (socket, electric clock)	Permanently live circuit
2	25	54	Wipers, horn, (2 nd and 3 rd horn and horn relay), cigar lighter	Can be switched off by ignition starter switch
3	8	54	Free for optional extra	
4	8	54	Flash signal system, stop lights, reversing light, fuel reserve gage, choke control pilot light	
5	8	54	Defroster blower, left (and right)	
6	8	54	(Upper beam flash signal)	
7	8	58	Tail light, right, license plate light, right, parking light, right, instrument lighting	
8	8	58	Tail light, left, license plate light, left, (fog light)	
9	8	56 a	Upper beam, right, upper beam pilot light	Can be switched over by foot dimmer switch
10	8	56 a	Upper beam, left	
11	8	56 b	Lower beam, right	
12	8	56 b	Lower beam, left	

The units in brackets are optional and are installed only if ordered specially.

III. Models 180 D, 180 Db

Fuse No.	Fuse element amp.	Lead	Consumer units	Remarks
1	8	30	Clearance lights, roof light, electric clock	Permanently live circuit
2	25	54	Cigar lighter, wipers	Can be switched off by ignition starter switch
3	8	54	Flash signals, horn, reversing light	
4	8	54	Stop light, fuel gage, (defroster blower)	
5	8	58	License plate light, right, tail light, right, parking light, right	
6	8	58	License plate light, left, tail light, left, parking light, left, instrument lighting	
7	8	56 a	Upper beam, right, upper beam pilot light	Can be switched over by foot dimmer switch
8	8	56 a	Upper beam, left	
9	8	56 b	Lower beam, right	
10	8	56 b	Lower beam, left	

The units in brackets are optional and are installed only if ordered specially.

IV. Models 190 D, 190 Db

Fuse No.	Fuse element amp.	Lead	Consumer units	Remarks
1	8	30	Clearance lights, roof light, electric clock, (socket)	Permanently live circuit
2	25	54	Wipers, cigar lighter, 1st horn, (2nd and 3rd horn and horn relay)	Can be switched off by ignition starter switch
3	8	54	Free for optional extra	
4	8	54	Flash signal system, stop light, reversing light, fuel gage, electric fuel reserve gage	
5	8	54	Defroster blower, left (and right)	
6	8	54	Upper beam flash signal	
7	8	58	Tail light, right, parking light, right, instrument lighting, license plate light, right	
8	8	58	Tail light, left, parking light, left, license plate light, left, fog light	
9	8	56 a	Upper beam, right, upper beam pilot light	Can be switched over by foot dimmer switch
10	8	56 a	Upper beam, left	
11	8	56 b	Lower beam, right	
12	8	56 b	Lower beam, left	

The units in brackets are optional and are installed only if ordered specially.

V. Model 190 SL

Fuse No.	Fuse element amp.	Lead	Consumer units	Remarks
1	8	30	Clearance lights, interior light, socket	Permanently live circuit
2	8	54	Wipers, flash signal system, fuel gage, choke control pilot light	Can be switched off by ignition starter switch
3	8	54	Horns	
4	8	54	Reversing light, upper beam flash signal	
5	8	54	Cigar lighter	
6	8	54	Stop lights, defroster blower	
7	8	58	License plate light, tail light, right, parking light, right	
8	8	58	Tail light, left, parking light, left, instrument lighting, (fog light)	
9	8	56 a	Upper beam, right, upper beam pilot light	Can be switched over by foot dimmer switch
10	8	56 a	Upper beam, left	
11	8	56 b	Lower beam, right	
12	8	56 b	Lower beam, left	

The units in brackets are optional and are installed only if ordered specially

VI. Model 220 a

Fuse No.	Fuse element amp.	Lead	Consumer units	Remarks
1	8	30	Clearance lights, electric clock, roof light, reading light, socket	Permanently live circuit
2	8	54	Choke control pilot light, fuel gage, flash signal system, wipers	Can be switched off by ignition starter switch
3	8	54	1st and 2nd horn	
4	8	54	Reversing light, 3rd horn, upper beam flash signal	
5	8	54	Cigar lighter	
6	8	54	Stop lights, (defroster blower)	
7	8	58	License plate light, tail light, right, parking light, right	
8	8	58	Tail light, left, parking light, left, instrument lighting, fog light	
9	8	56 a	Upper beam, right, upper beam pilot light	Can be switched over by foot dimmer switch
10	8	56 a	Upper beam, left	
11	8	56 b	Lower beam, right	
12	8	56 b	Lower beam, left	

The units in brackets are optional and are installed only if ordered specially.

VII. Model 219

Fuse No.	Fuse element amp.	Lead	Consumer units	Remarks
1	8	30	Clearance lights, roof light, socket, electric clock	Permanently live circuit
2	25	54	Wipers, 1 st and 2 nd horn, (3 rd horn and horn relay), cigar lighter	Can be switched off by ignition starter switch
3	8	54	Free for optional extra	
4	8	54	Stop lights, reversing light, fuel gage, choke control pilot light, flash signal system	
5	8	54	Defroster blower, left (and right)	
6	8	54	Upper beam flash signal	
7	8	58	Tail light, right, parking light, right, license plate light, right	
8	8	58	Tail light, left, parking light, left license plate light, left, instrument lighting (fog light)	
9	8	56 a	Upper beam, right, upper beam pilot light	Can be switched over by foot dimmer switch
10	8	56 a	Upper beam, left	
11	8	56 b	Lower beam, right	
12	8	56 b	Lower beam, left	

The units in brackets are optional and are installed only if ordered specially.

VIII. Model 220 S

Fuse No.	Fuse element amp.	Lead	Consumer units	Remarks
1	8	30	Clearance lights, roof light, socket, electric clock, reading light	Permanently live circuit
2	25	54	Wipers, 1 st and 2 nd horn, (3 rd horn and horn relay), cigar lighter	Can be switched off by ignition starter switch
3	8	54	Free for optional extra	
4	8	54	Flash signal system, stop light, reversing light, fuel gage, choke control pilot light	
5	8	54	Defroster blower, left (and right)	
6	8	54	Upper beam flash signal	
7	8	58	Tail light, right, parking light, right, license plate light, right	
8	8	58	Tail light, left, parking light, left, license plate light, left, instrument lighting, fog light	
9	8	56 a	Upper beam, right, upper beam pilot light	Can be switched over by foot dimmer switch
10	8	56 a	Upper beam, left.	
11	8	56 b	Lower beam, right	
12	8	56 b	Lower beam, left	

The units in brackets are optional and are installed only if ordered specially.

IX. Model 220 SE

Fuse No.	Fuse element amp.	Lead	Consumer units	Remarks
1	8	30	Clearance lights, roof light, socket, electric clock, reading light	Permanently live circuit
2	25	54	Wipers, 1 st and 2 nd horn, (3 rd horn and horn relay), cigar lighter	Can be switched off by ignition starter switch
3	8	54	Free for optional extra	
4	8	54	Fuel feed pump	
5	8	54	Flash signal system, stop light, reversing light, fuel gage	
6	25	54	Automatic starter aid, upper beam flash signal, defroster blower, left (and right)	
7	8	58	Tail light, right, license plate light, right, parking light, right, instrument lighting	
8	8	58	Tail light, left, license plate light, left, parking light, left, fog light	
9	8	56 a	Upper beam, right, upper beam pilot light	Can be switched over by foot dimmer switch
10	8	56 a	Upper beam, left	
11	8	56 b	Lower beam, right	
12	8	56 b	Lower beam, left	

The units in brackets are optional and are installed only if ordered specially.