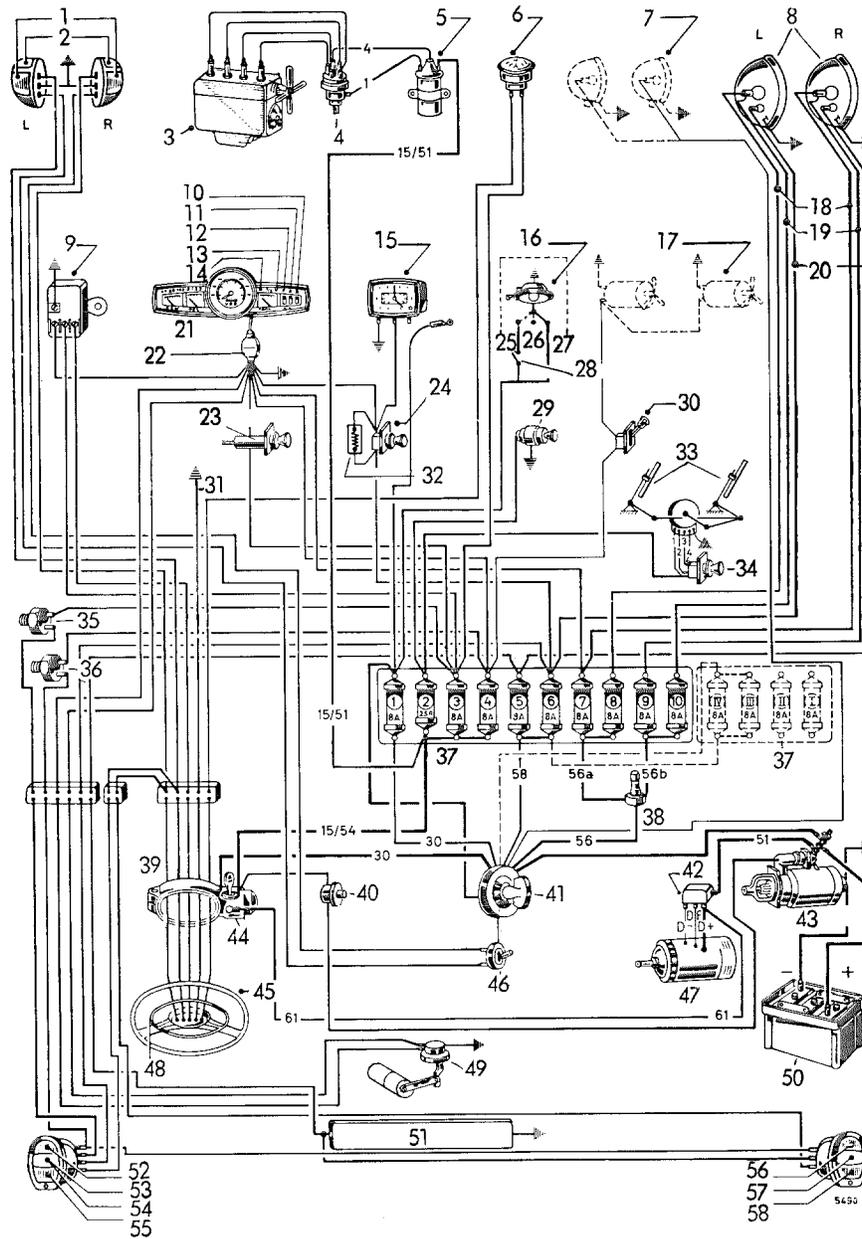


C. Circuit Diagrams

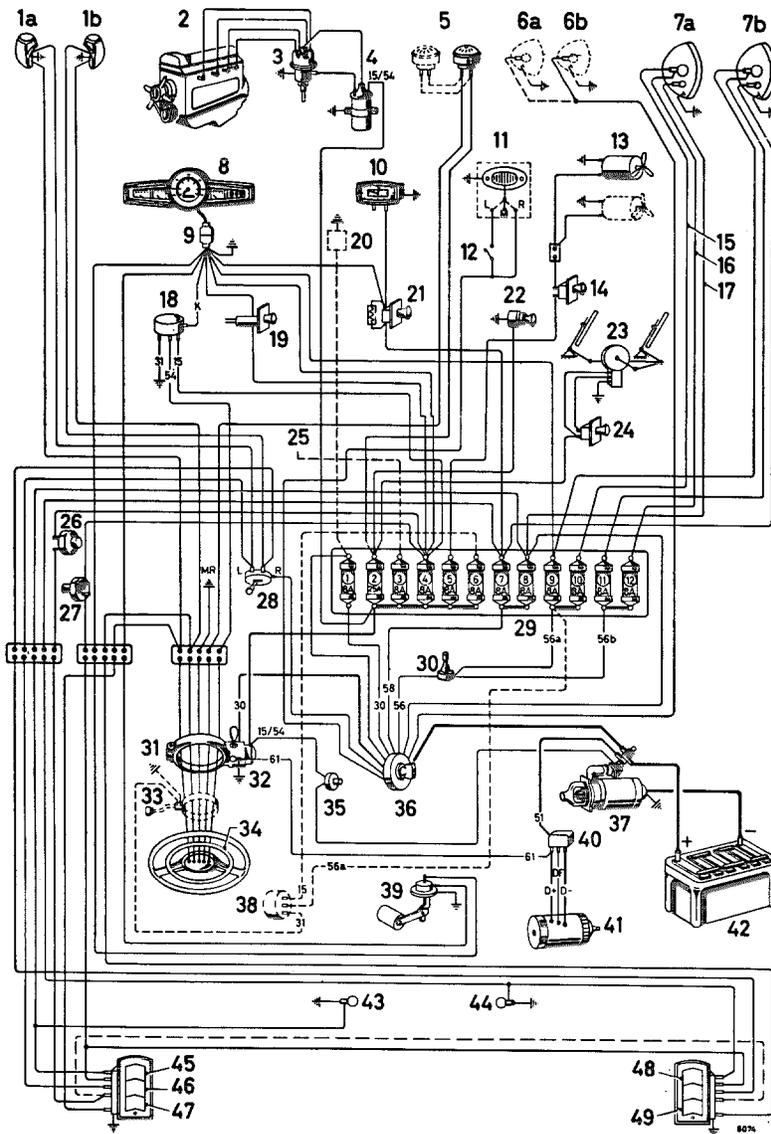
I. Model 180



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 | |

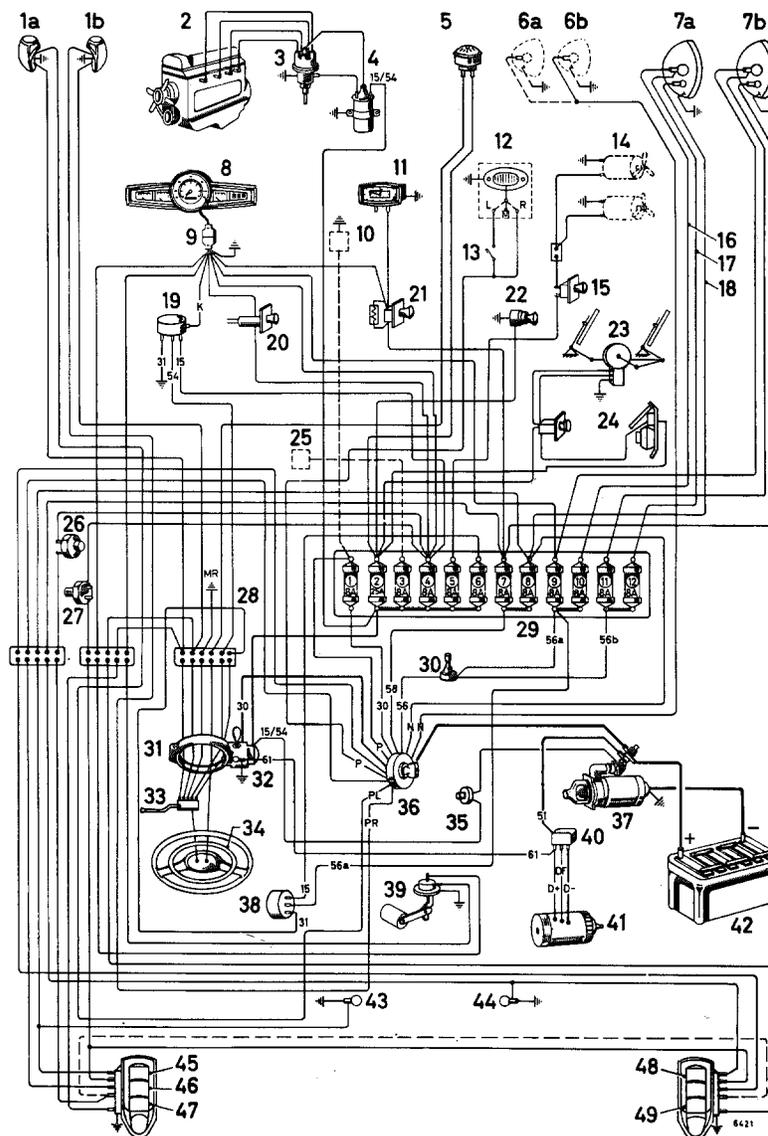
II. Model 180 a



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 | | |

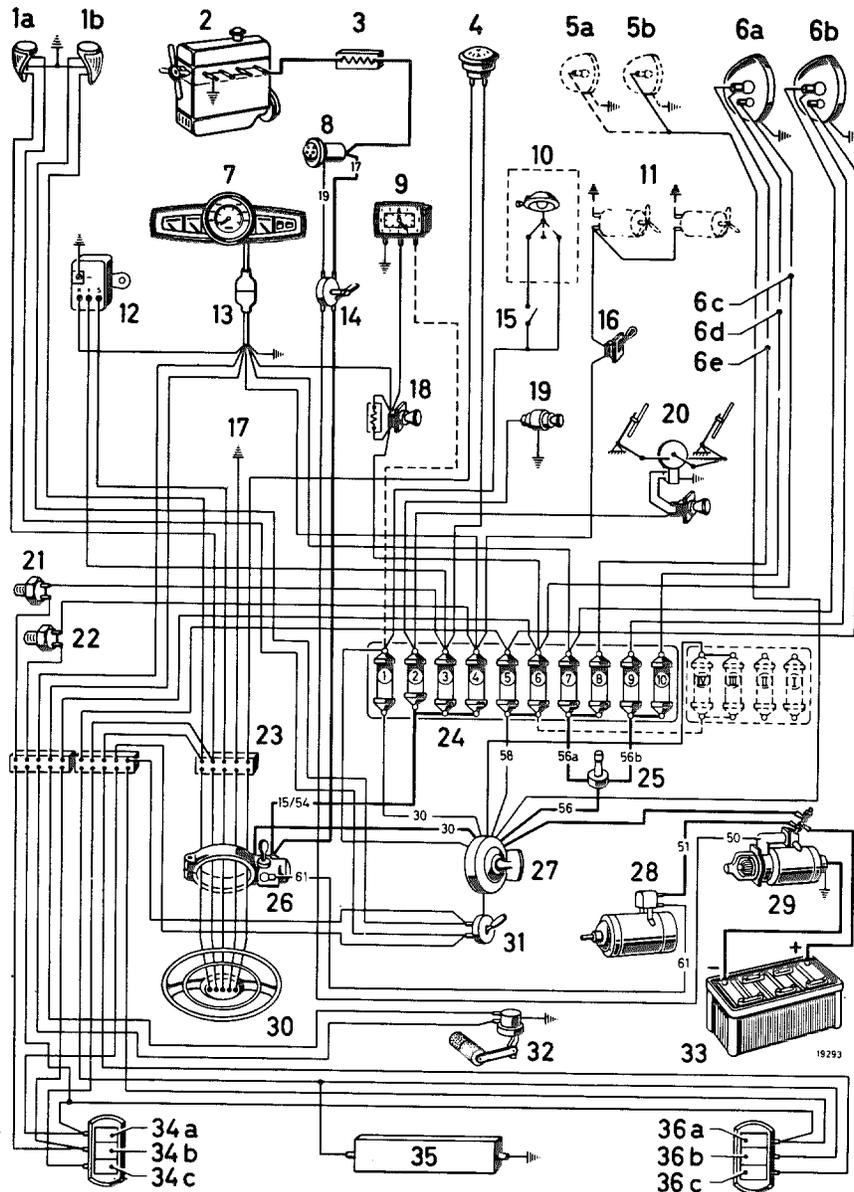
III. Model 180 b



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 } (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 | | |

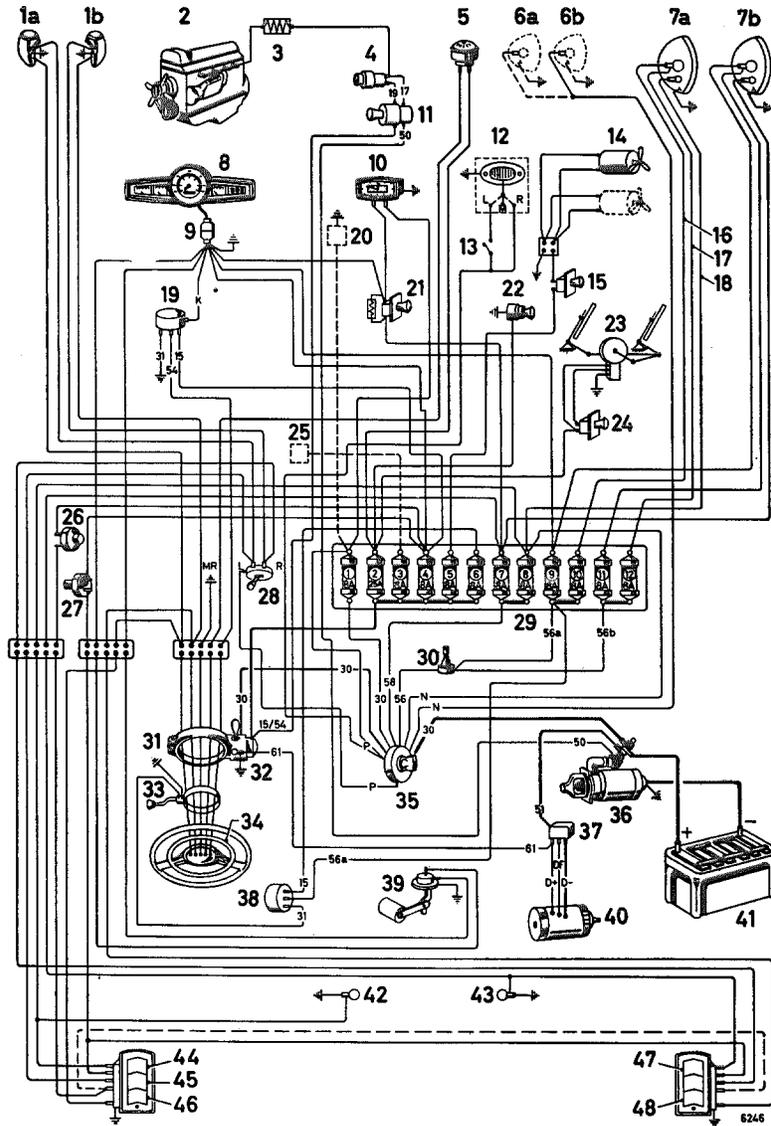
IV. Model 180 D



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 | | |

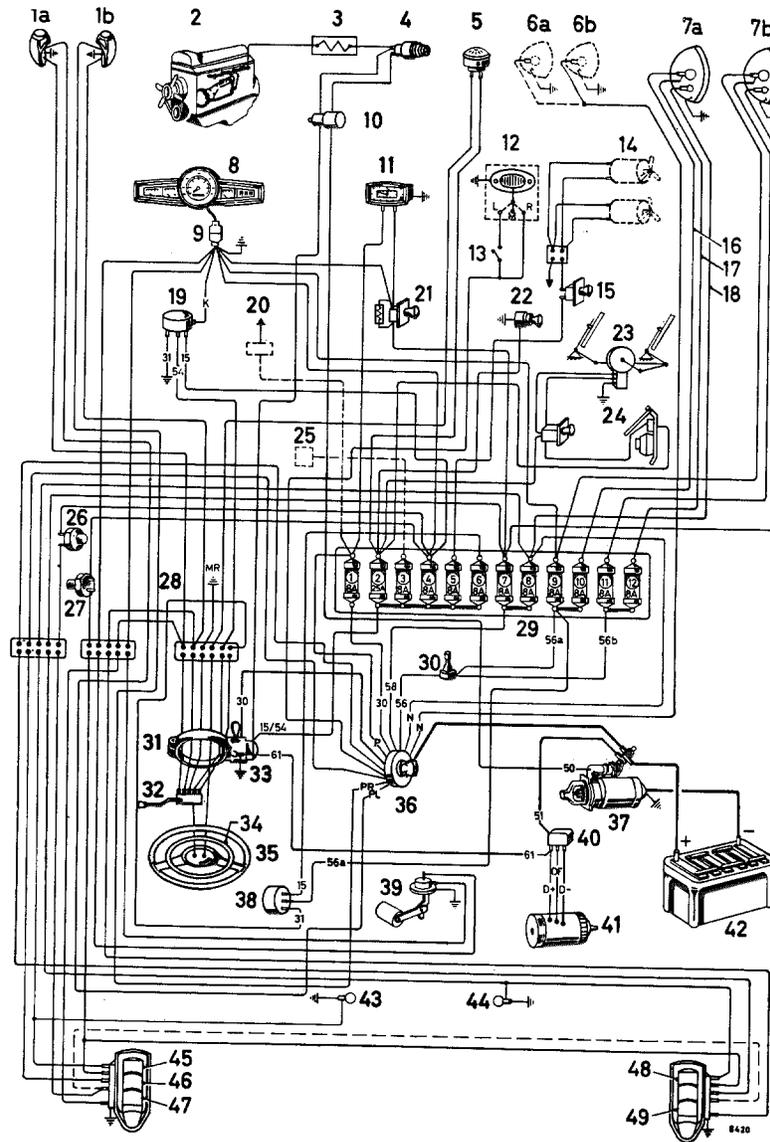
V. Model 190 D



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 | | |

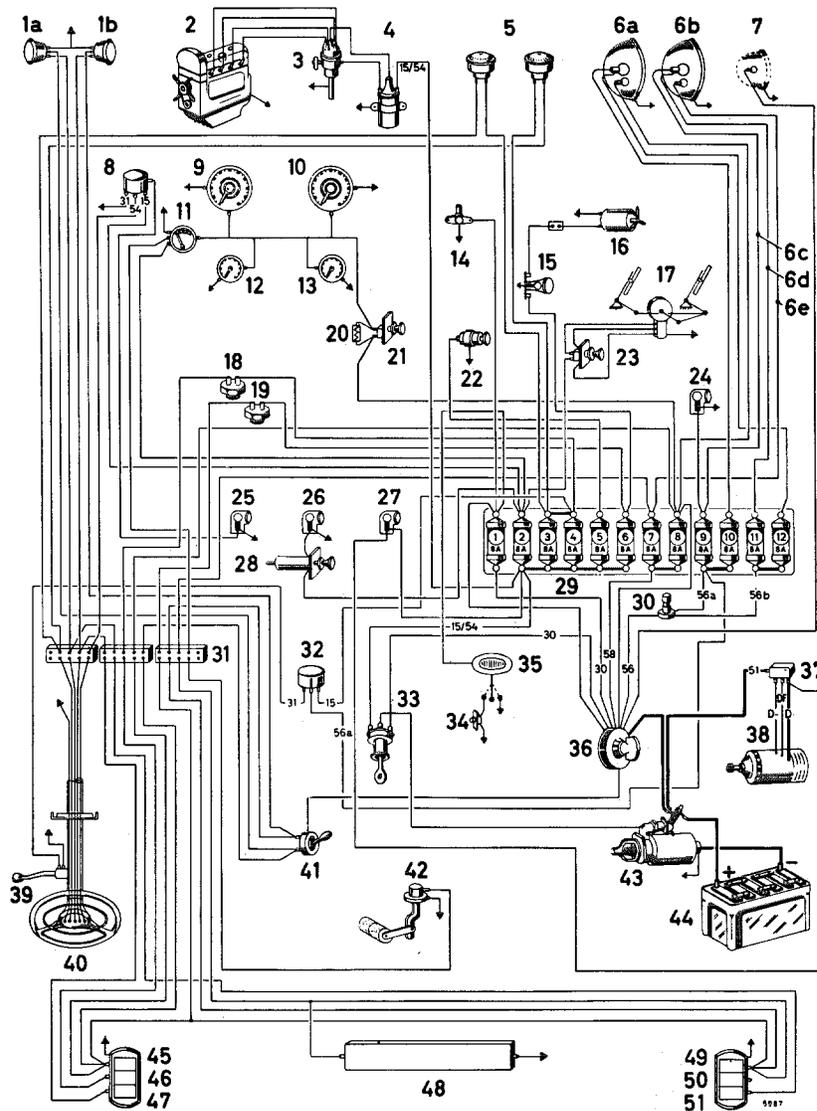
VI. Models 180 Db, 190 Db



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 } optional | 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 | | |

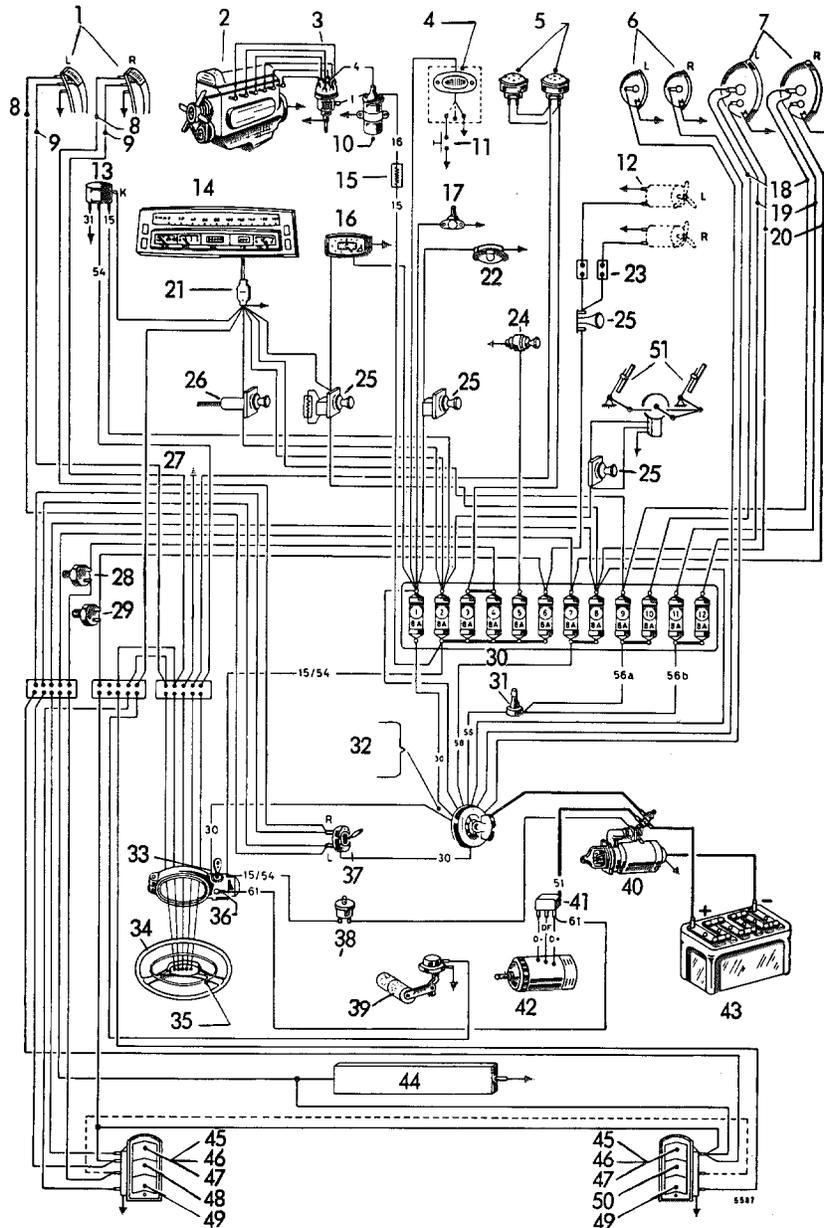
VII. Model 190 SL



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 | | |

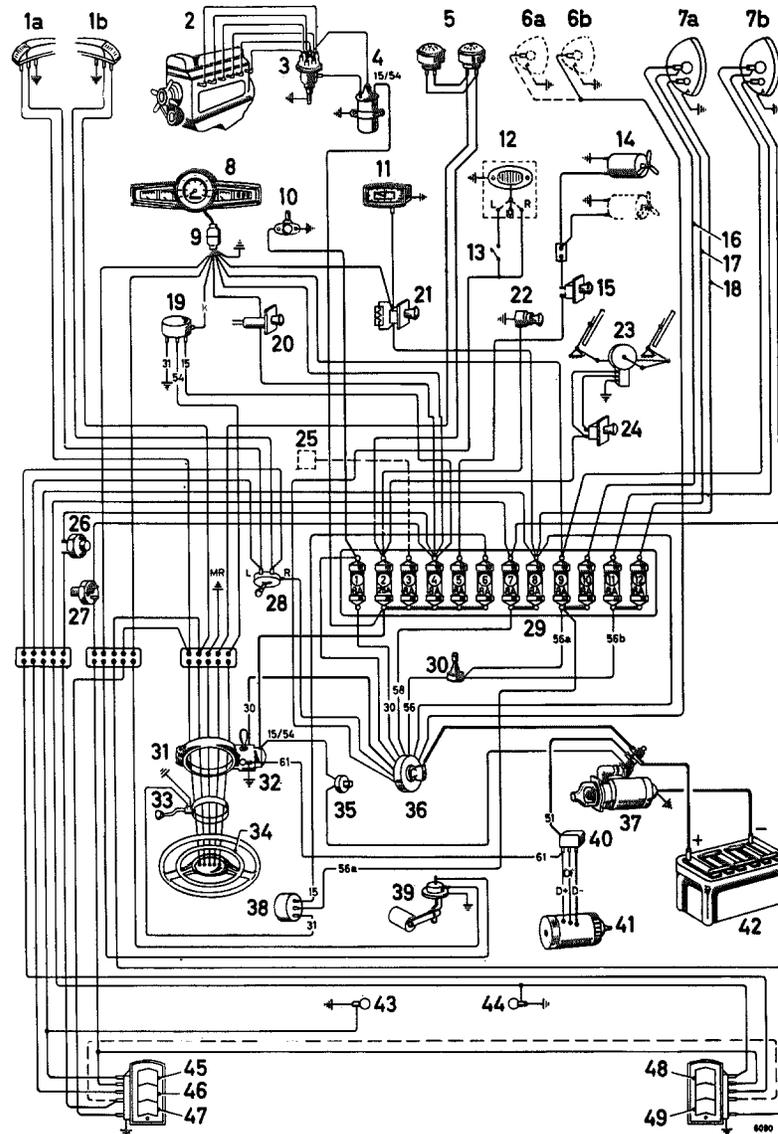
VIII. Model 220 a



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 |
| 6 Fog lights | 25 Switch | 41 Regulator 12 volts |
| 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 |

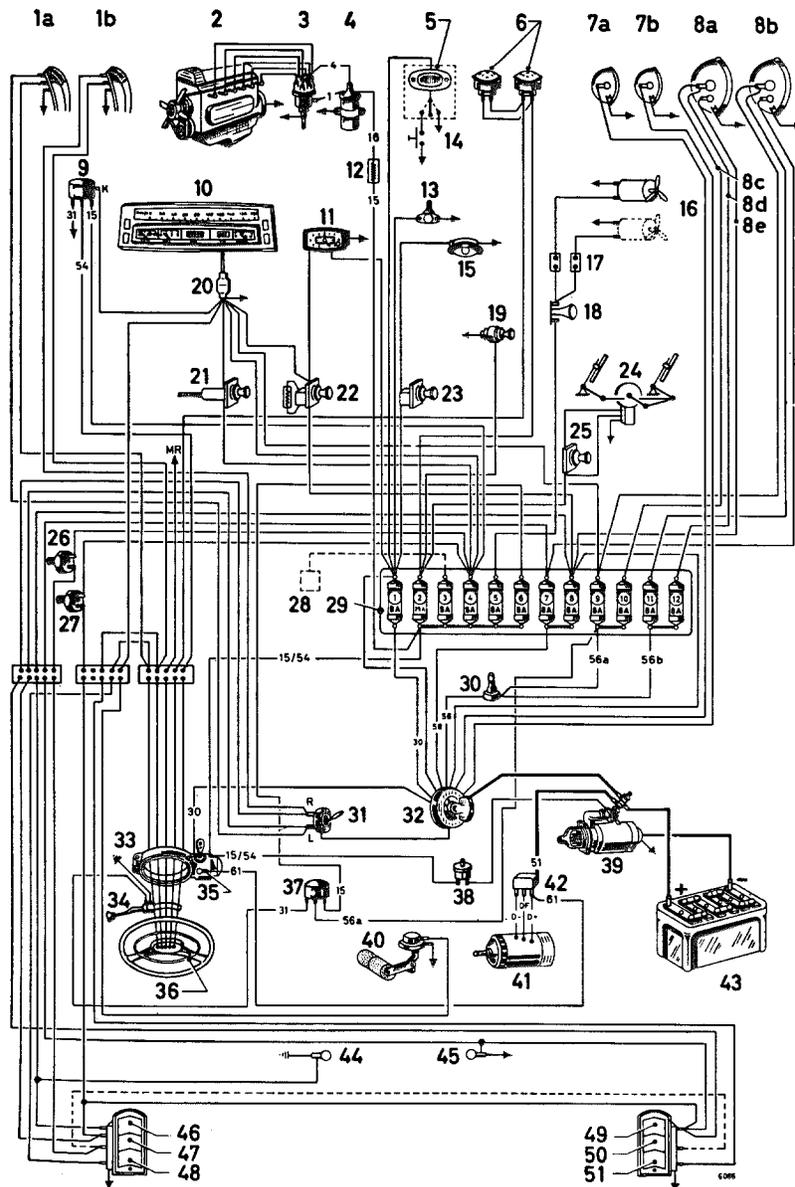
IX. Model 219



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 | | |

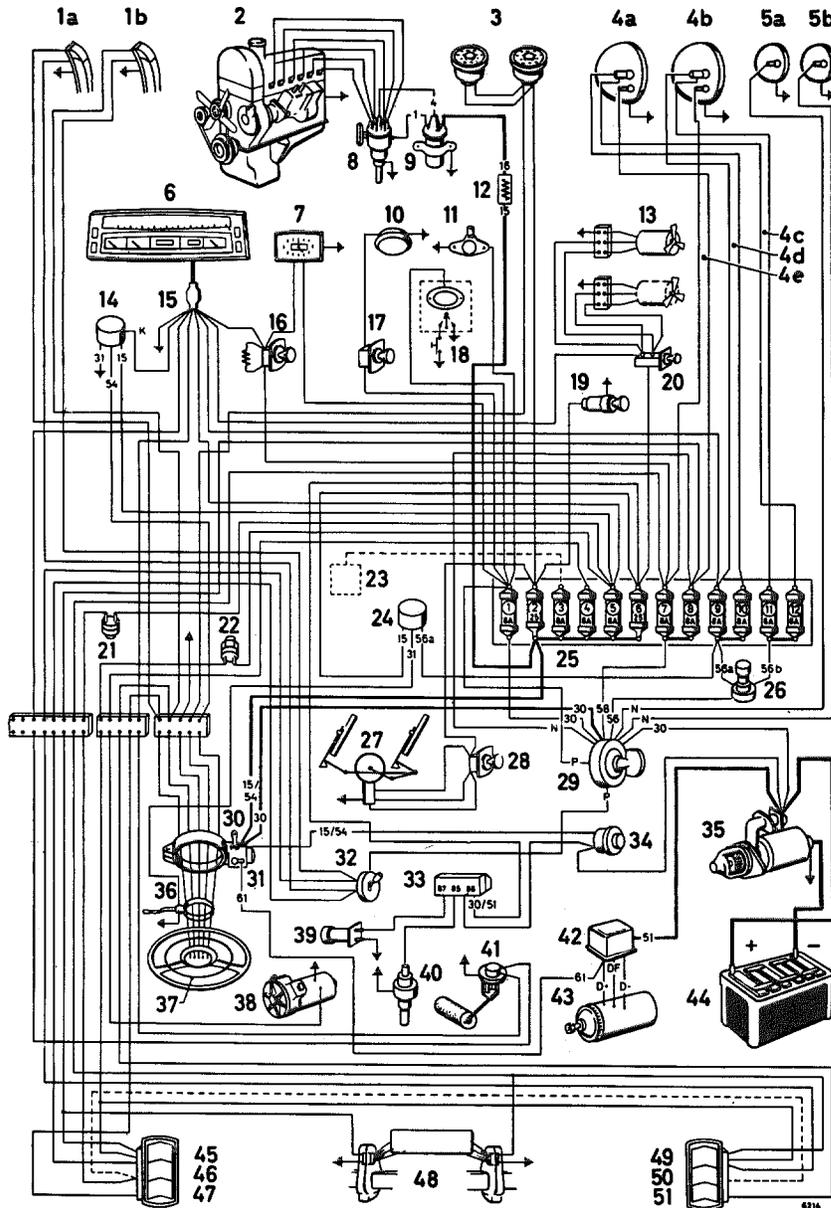
X. Model 220 S



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 |