

# Volkswagen Cabriolet DIY Guide

## Relay/Fuse Diagrams & Electrical System

### Notes:

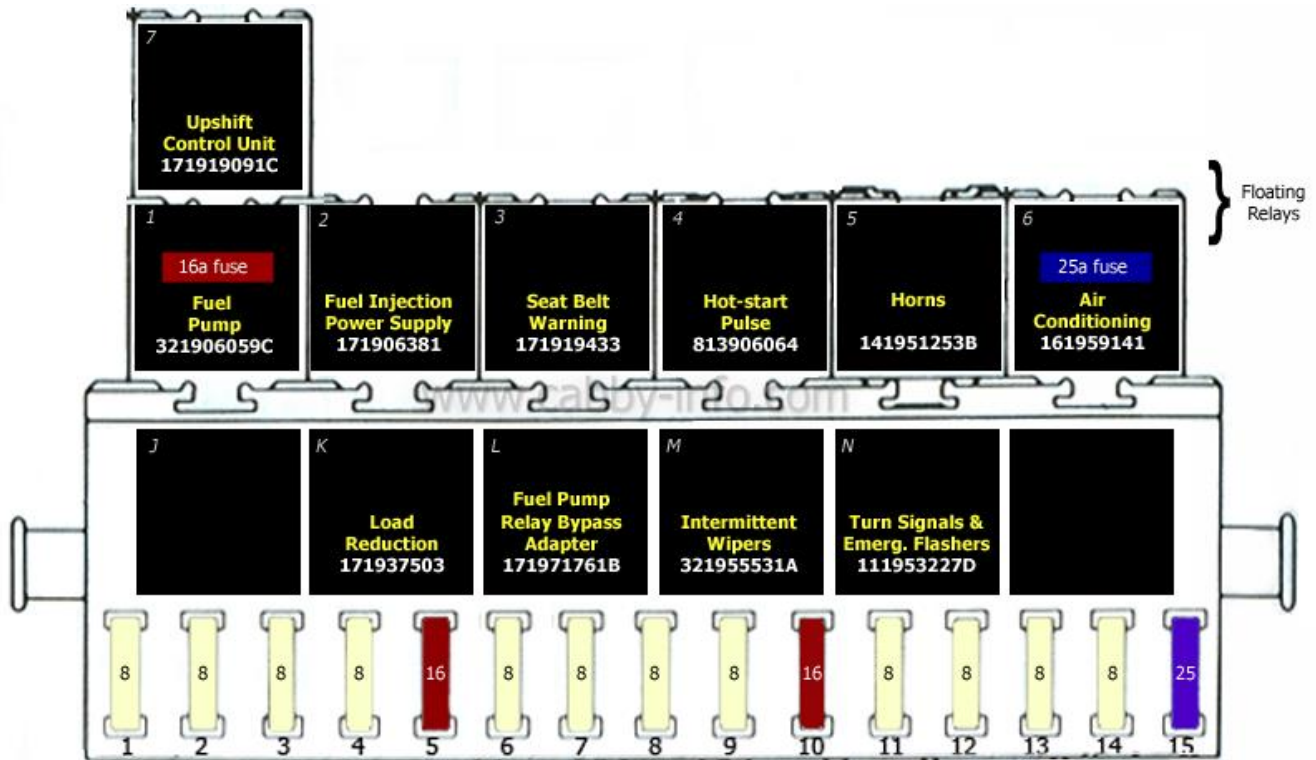
- 1980-1982 cars use ceramic fuses!
- 1980-1982 cars had a recall for the fuel pump relay. These cars should have a relay bypass adapter installed in the original fuel pump relay location (position L), which is then connected to the fuel pump relay that has been relocated to the top of the panel.
- If your car has factory-installed heated seats, the relays for this option are under each front seat (#443919533A).
- If your car has a factory-installed 2-stage after-run cooling fan system ('88+), the relay for this fan is mounted to the left front fender (#141951253B).
- If your car has a factory-installed power windows, there is a control unit beneath the dash on the passenger side (#191959875).
- If your car has a factory-installed power top, there is a covered thermo-fuse above the relay panel.
- Relays for options/equipment not shown in the diagrams (part numbers follow):
  - Intake manifold heating ~ carburetor (#171906383)
  - Intake manifold heating ~ EX, EW, DX engines (#191906383C)
  - Daytime running lights (#701919505)
  - Headlight washers (#701955200)
  - Fog lamps (#141951253B)
  - Power convertible top (#141951253B)
  - Power windows ~ Europe (#141951253B)
  - Temperature sensor (#191906086)
- ALL 1983-1993 Cabriolets have CE1 electrics.

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# Volkswagen Cabriolet Fuse & Relay Panel Diagram

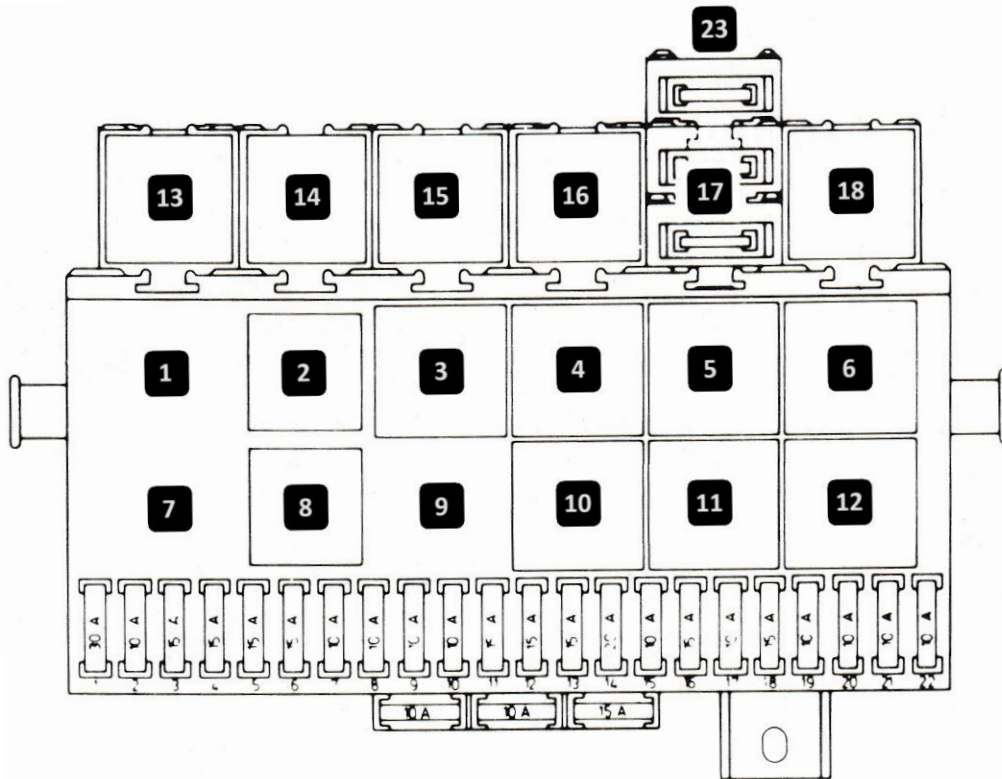
## 1979 – 1982 K-Jetronic



FUSES			RELAYS		
Pos		Circuit	Pos	Component	Part Number
1	8	Headlights: Lo-beam (left)	J		
2	8	Headlights: Lo-beam (right)	K	Load reduction	171937503
3	8	Headlights: Right hi-beam, hi-beam indicator	L	Fuel pump relay bypass adapter harness	171971761B
4	8	Headlights: Left hi-beam	M	Intermittent wipers	321955531A
5	16	Rear window defroster	N	Turn signals/emergency flashers	111953227D
6	8	Emergency flashers; radio	O		
7	8	Cigarette lighter; clock; interior lights; instrument cluster	1	Fuel pump (16 amp fuse)	321906059C
8	8	Turn signals & indicator light	2	Fuel injection power supply	171906381
9	8	Reverse lights; horns	3	Seat belt warning/door chime	171919433
10	16	HVAC blower fan	4	Hot-start pulse	813906064
11	8	Windshield wipers/washer	5	Horns	141951253B
12	8	License plate lights; trunk lights	6	Air conditioning (25 amp fuse)	161959141
13	8	Exterior running lights & brake light (right)	7	Upshift control unit	171919091C
14	8	Exterior running lights & brake light (left)			
15	25	Radiator cooling fan			

# Volkswagen Cabriolet Fuse & Relay Panel Diagram

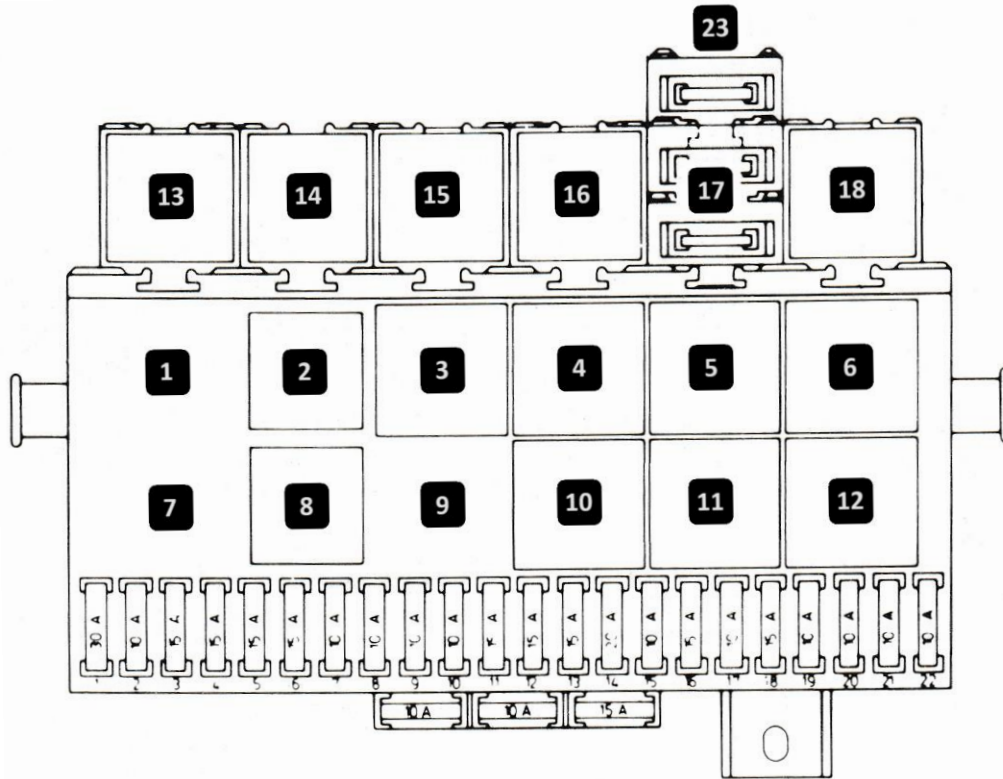
## 1983 – 1985 K-Jetronic



FUSES			RELAYS		
Pos	Amps	Circuit	Pos	Component	Part Number
1	30	Radiator cooling fan	1		
2	10	Brake lights; cruise control	2	Fuel pump(s) circuit	321906059D
3	15	Cigarette lighter; clock; radio; interior lights	3	Seat belt warning/door chime	171919433
4	15	Emergency flashers	4	Upshift control unit	171919091C
5	15	Fuel pump(s), CPR, AAR, CSV	5	Air conditioning	171959141A
6		Open	6	Horns	141951253B
7	10	Tail lights, parking lights, side marker lights (left)	7		
8	10	Tail lights, parking lights, side marker lights (right)	8	Load reduction	171937503A
9	10	Headlights: Right hi-beam, hi-beam indicator	9		
10	10	Headlights: Left hi-beam	10	Intermittent wipers	321955531A
11	15	Windshield wipers/washers	11		
12	15	Heated seats	12	Turn signals/emergency flashers	1H0953227
13	20	Rear window defroster	13		
14	20	HVAC blower fan	14		
15	10	Reverse lights; A/T only: shifter light; cruise control	15	Fuel injection power supply	171906381
16	15	Horns	16	Hot-start pulse	813906064
17		Open	17	A/C fuse (30 amp)	
18	15	Seat belt warning; horn relay; coolant warning light; console gauges; M/T only: cruise control	18	Idle Control Unit	811905343
19	10	Turn signals; brake warning light	23		
20	10	License plate lights			
21	10	Headlights: Lo-beam (left)			
22	10	Headlights: Lo-beam (right)			

# Volkswagen Cabriolet Fuse & Relay Panel Diagram

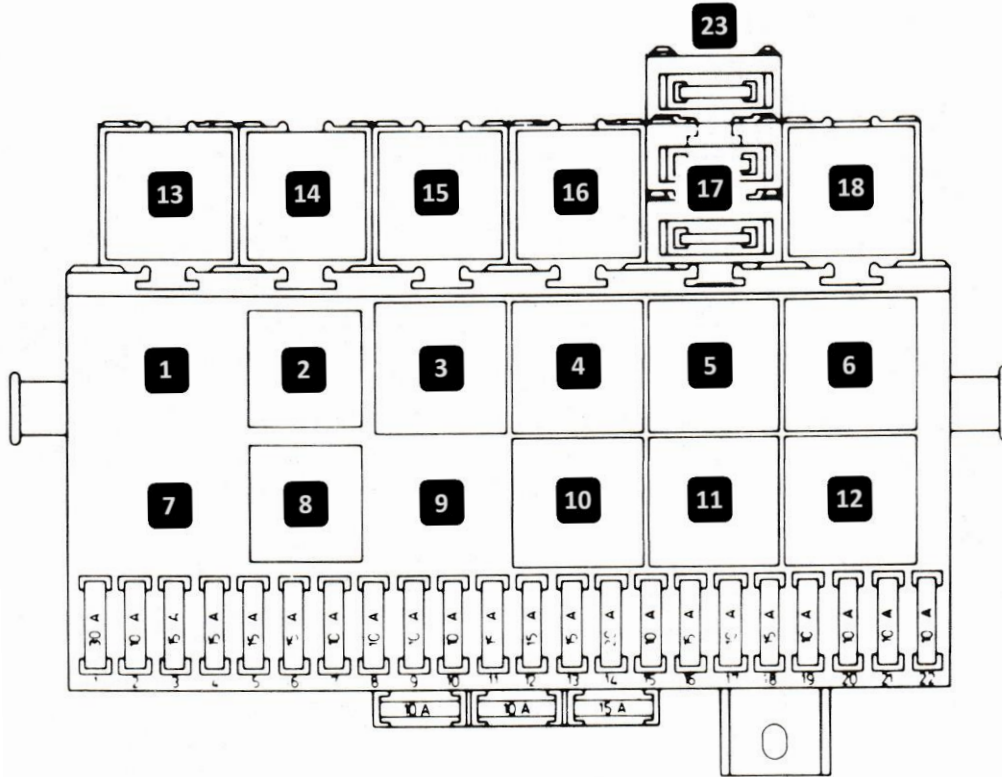
## 1986 – June 1987 K-Jetronic



FUSES			RELAYS		
Pos	Amps	Circuit	Pos	Component	Part Number
1	30	Radiator cooling fan	1		
2	10	Brake lights; cruise control	2	Fuel pump circuit	321906059E
3	15	Cigarette lighter; clock; radio; interior lights	2	Fuel pump circuit	321906059F
4	15	Emergency flashers	3	Seat belt warning/door chime	321919433B
5	15	Fuel pumps, CPR, AAR, CSV	4	Upshift control unit	171919091C
6		<i>Open</i>	5	Air conditioning	171959141A
7	10	Tail lights, parking lights, side marker lights (left)	6	Horns	141951253B
8	10	Tail lights, parking lights, side marker lights (right)	7		
9	10	Headlights: Right hi-beam, hi-beam indicator	8	Load reduction	171937503A
10	10	Headlights: Left hi-beam	9		
11	15	Windshield wipers/washers	10	Intermittent wipers	321955531A
12	15	Heated seats	11		
13	20	Rear window defroster	12	Turn signals/emergency flashers	1H0953227
14	20	HVAC blower fan	13		
15	10	Reverse lights; A/T only: shifter light; cruise control	14		
16	15	Horns	15	Fuel injection power supply	171906381
17		<i>Open</i>	16	Hot-start pulse	813906064
18	15	Seat belt warning; horn relay; coolant warning light; console gauges; M/T only: cruise control	17	A/C fuse (30 amp)	
19	10	Turn signals; brake warning light	18	Idle Control Unit	811905343
20	10	License plate lights; 1987: trunk light	23		
21	10	Headlights: Lo-beam (left)			
22	10	Headlights: Lo-beam (right)			

# Volkswagen Cabriolet Fuse & Relay Panel Diagram

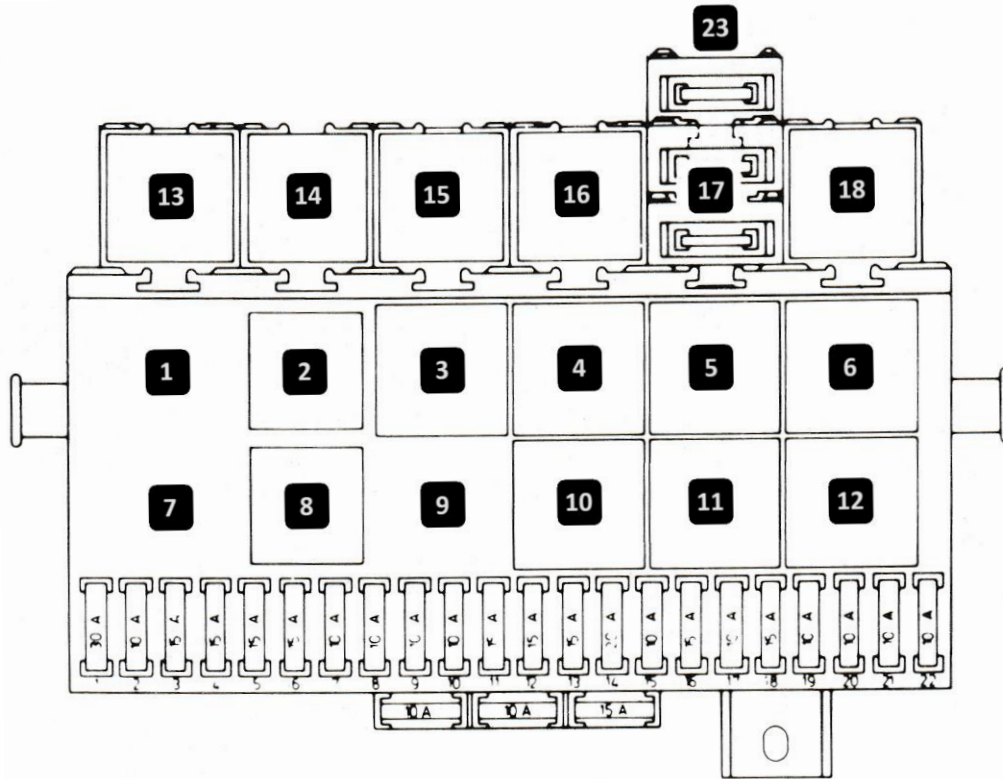
## 1988 – 1993 K-Jetronic



FUSES			RELAYS		
Pos	Amps	Circuit	Pos	Component	Part Number
1	30	Radiator cooling fan	1		
2	10	Brake lights; cruise control	2	Fuel pump circuit	321906059G
3	15	Cigarette lighter; clock; radio; interior lights	3	Seat belt warning/door chime	321919433B
4	15	Emergency flashers	4		
5	15	Fuel pumps, CPR, AAR, CSV, heated O2 sensor	5	Air conditioning	171959141A
6		Open	6	Horns	141951253B
7	10	Tail lights, parking lights, side marker lights (left)	7		
8	10	Tail lights, parking lights, side marker lights (right)	8	Load reduction	191937503
9	10	Headlights: Right hi-beam, hi-beam indicator	9	Fuse puller tool	171937579
10	10	Headlights: Left hi-beam	10	Intermittent wipers	321955531A
11	15	Windshield wipers/washers	11		
12	15	Heated seats	12	Turn signals/emergency flashers	1H0953227
13	20	Rear window defroster	13	Coolant low-level control unit*	191919376A
14	20	HVAC blower fan	14	Cold start enrichment	141951253B
15	10	Reverse lights; A/T only: shifter light; cruise control	15	Fuel injection power supply	171906381
16	15	Horns	16	Hot-start pulse	813906064
17		Open	17	A/C fuse (30 amp)	
18	15	Seat belt warning; horn relay; coolant warning light; console gauges; M/T only: cruise control	17	Power windows fuse (20 amp)	
19	10	Turn signals; brake warning light	18	Idle Control Unit	811905343
20	10	License plate lights; trunk light	23	Power top thermofuse (20 amp)	443937105
21	10	Headlights: Lo-beam (left)			
22	10	Headlights: Lo-beam (right)			
				* DX and KT engines only	

# Volkswagen Cabriolet Fuse & Relay Panel Diagram

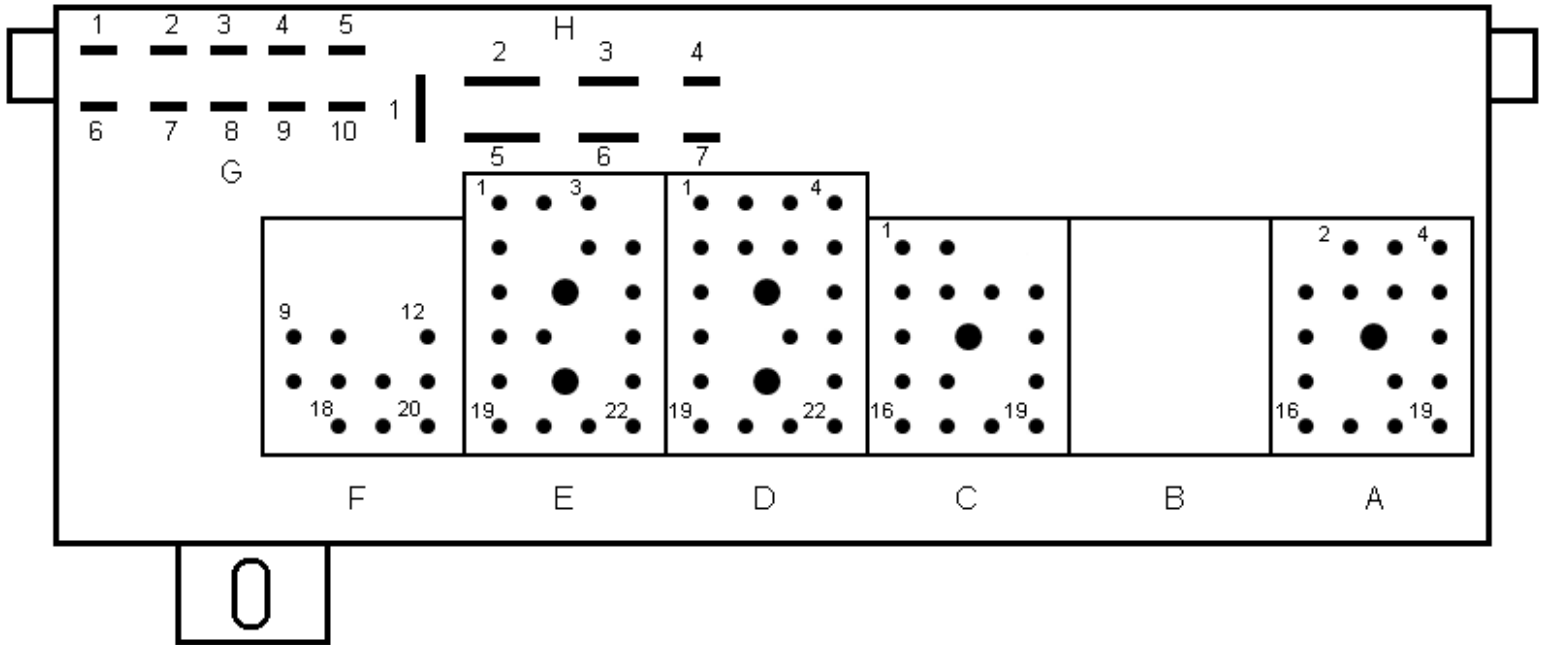
## 1990 – 1993 Digifant



FUSES			RELAYS		
Pos	Amps	Circuit	Pos	Component	Part Number
1	30	Radiator cooling fan	1	Digifant control unit	141951253B
2	10	Brake lights; 1991+: cruise control	2	Fuel pump circuit	191906383C
3	15	Cigarette lighter; clock; radio; interior lights	3	Seat belt warning/door chime	321919433B
4	15	Emergency flashers	4		
5	15	Fuel pumps; heated oxygen sensor	5	Air conditioning	171959141A
6		<i>Open</i>	6	Horns	141951253B
7	10	Tail lights, parking lights, side marker lights (left)	7		
8	10	Tail lights, parking lights, side marker lights (right)	8	Load reduction	7M0951253A
9	10	Headlights: Right hi-beam, hi-beam indicator	9	Fuse puller tool	171937579
10	10	Headlights: Left hi-beam	10	Intermittent wipers	191955531
11	15	Windshield wipers/washers	11		
12	15	Heated seats	12	Turn signals/emergency flashers	1H0953227
13	20	Rear window defroster	13	Coolant low-level control unit	191919376A
14	20	HVAC blower fan	14	Cooling fan time control unit	191955532A
15	10	Reverse lights; A/T: shifter light; 1990 M/T: cruise ctrl.	15	Auto trans starter interlock*	191919185
16	15	Horns	16	Auto trans starter interlock*	191927181
17	10	Power window switches	17	A/C fuse (30 amp)	
18	15	Seat belt warning; horn relay; coolant warning light; console gauges; heated seats; 1990 A/T: cruise ctrl.	17	Power windows fuse (20 amp)	
19	10	Turn signals; brake warning light	23	Power top thermofuse (20 amp)	443937105
20	10	License plate & trunk lights; 1991+: instrument lights			
21	10	Headlights: Lo-beam (left)			
22	10	Headlights: Lo-beam (right)			

\* May be mounted to back side of kneebar

## Relay Panel Pin-Outs (1980-1982)

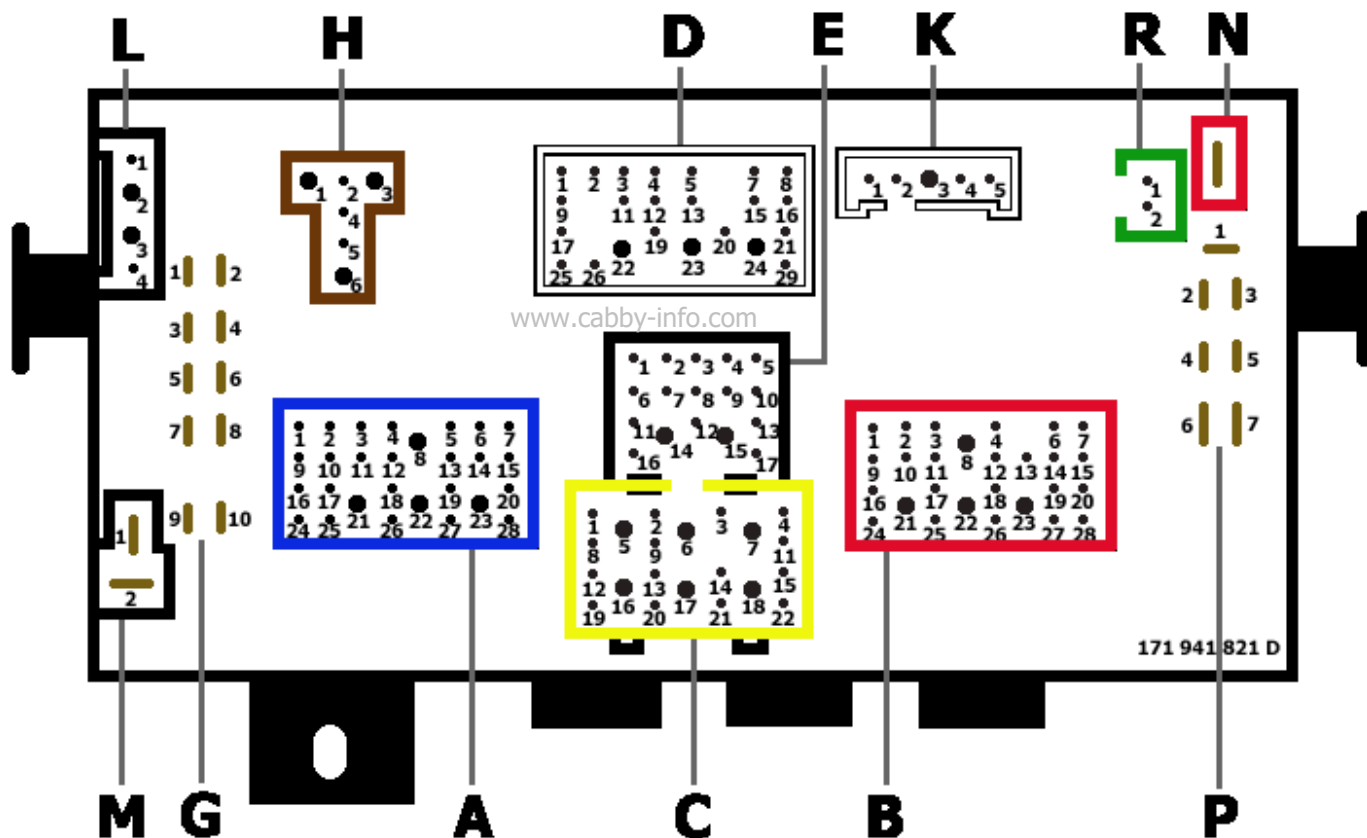


A Left Harness			
Pin	Circuit	Goes To	Wire Color
A2	Spare wire	D4 internally	Blue/Brown
A3	-	A5	Blue/Green
A4	Alternator Exciter/Charging Circuit	D+ on alternator	Blue
A5	-	A3	Blue/Green
A6	Turn Signals	Left front indicator light	Black/White
A7	Horns		Brown
A8	Fuel System	Control pressure regulator; Auxiliary air regulator; fuel pump; fuel pump relay pin L14	Black/Green
A9	Side-marker Lights	Left running light	Gray/Black
A10	-	C10 and E17 internally	-
A11	Horns	Horns	Black/Yellow
A14	Brake Lights	Brake light switch	Red/Yellow
A15	Back-up Lights	Reverse light switch	Black
A16	Brake Lights	Brake light switch	Red/Black
A17	Back-up Lights	Reverse light switch	Black/Green
A18	Headlights	Left headlight pin 56a	White/Black
A19	Headlights	Left headlight pin 56b	Yellow/Black
A20	Emergency Flashers/Turn Signals	Emergency Flasher Switch Terminal L to Turn Signal Switch; C19; E6; D11	Black/White
C Right Harness			
Pin	Circuit	Goes To	Wire Color
C1	Cooling System	Coolant temperature switch	Blue/Yellow
C5	Wipers/Washers	Wiper motor pin 31	Brown
C6	Wipers/Washers	Wiper motor pin 53	Green/Black
C7	Side-marker Lights	Right running light	Gray/Red
C8	Headlights	Right headlight pin 56b	Yellow
C9	Wipers/Washers	Wiper motor pin 53e	Green
C11	Headlights	Right headlight pin 56a	White
C12	Oil Pressure Warning	Oil pressure switch	Blue/Black
C13	Wipers/Washers	Wiper motor pin 53a	Black/Gray
C15	Ignition System	Series resistance for coil	White/Lilac
C16	Wipers/Washers	Wiper motor pin 53b	Green/Yellow
C17	Wipers/Washers	Washer motor/pump	Green/Red
C18	Turn Signals	Right front indicator light	Black/Green
C19	Ignition System	Ignition coil pin 1	Black

<b>D Dashboard Harness</b>			
<b>Pin</b>	<b>Circuit</b>	<b>Goes To</b>	<b>Wire Color</b>
D1	Instrument Cluster	Harness plug at terminal 2 (turn indicator light)	Blue/Red
D2	Instrument Cluster	Harness plug at terminal 10 (charging warning light)	Blue
D3	Headlights	Headlight switch pin 30	Red
D4	Parking brake, seat belt warning lights	Three-terminal connector for warning lights and e-brake light switch	Blue/Brown
D5	Horns	Horns relay pin 86	Black
D7	Headlights / Load Reduction	Headlight switch pin X	Black/White
D8	Instrument Cluster	Harness plug at terminal 1 (coolant temperature gauge)	Blue/Yellow
D9	Headlights	Headlight dimmer switch pin 30	Red/Yellow
D10	Headlights	Headlight dimmer switch pin 56a	White
D11	Ground	-	Brown
D12	Emergency Flashers	Emergency flasher switch pin 49	White
D14	Instrument Cluster/Dash	Clock; cigarette lighter	Red/Gray
D15	Instrument Cluster	Harness plug at terminal 4 (tachometer)	Red
D16	Rear Window Defroster	Rear window defroster switch pin 86	White/Green
D17	Headlights	Headlight switch pin 56	White/Black
D18	Instrument Cluster	Harness plug at terminal 11 (oil pressure warning light)	Blue/Black
D19	HVAC	Blower motor switch pin +	Black/Red
D20	Emergency Flashers	Emergency flasher switch pin 15	Black/Blue
D21	Emergency Flashers	Emergency flasher switch pin 30	Red/White
D22	Instrument Cluster	Harness plug at terminal 3 (hi-beam indicator light)	Blue/white
<b>E Dashboard Harness</b>			
<b>Pin</b>	<b>Circuit</b>	<b>Goes To</b>	<b>Wire Color</b>
E1	Headlights	Headlight switch pin 58L	Gray/Black
E2	Ignition System	Ignition switch pin 15	Black
E3	Emergency flashers	Emergency flasher switch pin 49a	Black/White/Green
E5	Headlights	Headlight switch pin 58R	Gray/Red
E7	-	E20	Green/Red
E8	Wipers/Washers	Wiper switch pin J	Brown/Black
E9	Headlights	Headlight switch pin 58	Gray/Green
E10	Emergency flashers	Emergency flasher switch pin 56b	Yellow
E11	Horns	Horn relay pin 87	Brown
E12	Instrument Cluster	Harness plug at terminal 8 (fuel gauge)	Lilac/Black
E13	Rear Window Defroster	Rear window defroster switch pin +	Black/Yellow
E15	Wipers/Washers	Wiper switch pin 53a	unknown
E16	Wipers/Washers	Wiper switch pin 53e	Green/Black
E18	Wipers/Washers	Wiper switch pin 53	Green
E19	Emergency flashers	Emergency flasher switch pin L	Black/White
E20	Wipers/Washers	E7; wiper switch pin T	Green/Red
E21	Wipers/Washers	Wiper switch pin 53b	Green/Yellow
E22	Emergency Flashers	Emergency flasher switch pin R	Black/Green
<b>F Rear Harness</b>			
<b>Pin</b>	<b>Circuit</b>	<b>Goes To</b>	<b>Wire Color</b>
F9	Running Lights	Left rear running light	Gray/Black
F10	Rear Window Defroster	Rear window defroster	White
F12	Fuel System	Fuel gauge sender	Lilac/Black
F13	Running Lights	License plate lights	Gray/Green
F14	Interior Lights	Interior courtesy light	Red/Green
F15	Running Lights	Right rear running light	Gray/Red
F16	Turn Signals	Right rear indicator light	Black/Green
F18	Back-up Lights	Reverse lights	Black
F19	Turn Signals	Left rear indicator light	Black/White
F20	Brake Lights	Brake lights	Black/Red
<b>G Individual Circuits</b>			
<b>Pin</b>	<b>Circuit</b>	<b>Goes To</b>	<b>Wire Color</b>
G1	Radiator Cooling Fan	H; internally to G6 via fuse 15	Red
G2	Wipers/Washers	Internally to E7; relay M at pin 20	-
G3	Seat Belt Warning	Seat belt relay terminal 15; seat belt warning light	Black
G4	Lighting	Internally to fuse 12 and pin F13	-

G5	Alternator Excitor Circuit	Internally to A4, D2, C2	-
G6	Radiator Cooling Fan	Internally to G1 via fuse 15; radiator fan thermo switch	Red/Black
G7	Ignition System / Load Reduction	Internally to E13; load reduction relay; D5 & E15 via fuse 11; D19 via fuse 10	-
G8	Headlights	Internally to C11 via fuse 4, A18 via fuse 3, D10, D22	-
G9	Oil Pressure Warning System	Internally to C12, D18	-
G10	-	Internally to D17	-
<b>H</b>	<b>Individual Circuits – Battery Power</b>		
<b>Pin</b>	<b>Circuit</b>	<b>Goes To/Comes From</b>	<b>Wire Color</b>
H	-	Battery	Red
H	-	Fuel injection power supply relay	Red
H	-	Ignition switch	Red
H	-	Radiator fan	Red

# Relay Panel Pin-Outs (1983+)



A			Blue Plug
Dashboard Wiring Harness			
Pin	Description	Goes To	Wire Color
A01	Dash Lights	G8; Dash Wiring Harness; Dimmer Switch Terminal 58b (A/T only)	Gray/Blue
A02	Wiper Switch	Intermittent Wiper Relay Terminal 53S; Intermittent Wiper Switch Terminal 53	Green
A03	Instrument Cluster	Up-shift Relay Terminal L; Up-shift Indicator Light	Blue/Yellow
A04	Instrument Cluster	Oil Pressure Warning System; G6; D1	Blue/Black
A05	Wiper Switch ~ High Speed Signal	D9; Intermittent Wiper Switch Terminal 53b	Green/Yellow
A06	Wiper Motor Switch	D17; Intermittent Wiper Switch Terminal 53e	Green/Black
A07	Emergency Flashers/Turn Signals	Emergency Flasher Switch Terminal R to Turn Signal Switch; C8; D25; E11	Black/Green
A08	Ignition System	Ignition Switch Terminal 15; Airbag Control Unit Terminal 18 (1990+)	Black
A09	-	M1, G7	White/Black
A10	Emergency Flashers	Emergency Flasher Switch Terminal 49a to Turn Signal Switch; Flasher Relay Terminal 49a	Black/White/Green
A11	-	Emergency Flasher Relay (internal)	-
A12	Wiper Switch ~ Intermittent Signal	Intermittent Wiper Relay Terminal J; Intermittent Wiper Switch Terminal J	Brown/Black
A13	Emergency Flasher Switch	Fuse 19; Emergency Flasher Switch Terminal 15	Black/Blue
A14	-	E7	-
A15	E-brake Warning Light	C12; E-brake Warning Light Switch	Blue/Brown
A16	Instrument Cluster	Battery Warning Light; G4; C2; D4	Blue
A17	Instrument Cluster	Turn Signal Indicator Light; A10	Blue/Red
A18	Emergency Flashers	Emergency Flasher Switch Terminal 49; Flasher Relay Terminal 49	White
A19	Wiper Switch ~ Washer	Intermittent Wiper Relay Terminal T; Intermittent Wiper Switch Terminal T; D5; G10; C9	Green/Red
A20	Emergency Flashers/Turn Signals	Emergency Flasher Switch Terminal L to Turn Signal Switch; C19; E6; D11	Black/White

A21	Headlights	Fuse 21; Fuse 22; Headlight Dimmer/Flasher Switch Terminal 56b Canada 1990: M2; Headlight Switch Terminal TFL via DRL Resistor Canada 1991+: M2; DRL Relay via DRL Resistor; Headlight Switch Terminal TFL	Yellow
A22	Rear Window Defroster Switch Power	Fuse 13; Rear Defroster Switch	Black/Yellow
A23	HVAC System	Fuse 14; HVAC Blower Fan; Headlight Switch Light	Black/Red
A24	Light Switch	Light Switch Terminal 58; Fuse 7	Gray/Green
A25	Horns; Gauges	G5; G2; D7; L1; Console Gauges A/T 1990+: Relay 6	Black
A26	Lights	G9; E1	-
A27	Up-shift System	Up-shift Relay Terminal 2 (internal)	-
A28	Instrument Cluster	Hi-beam Indicator Light; C16	Blue/White
<b>B</b>	<b>Dashboard Wiring Harness</b>		<b>Red Plug</b>
<b>Pin</b>	<b>Description</b>	<b>Goes To</b>	<b>Wire Color</b>
B01	-	E13	-
B02	Fog Light Switch (Europe Only)	E10	Green/White
B03	Instrument Cluster	Fuel Gauge; E5	Violet/Black
B04	-	E4	-
B05	-	(no pin)	-
B06	Fuel System	Fuel Pump Relay Terminal 8 (internal)	-
B07	Coolant Temperature Warning System	Coolant Temperature Gauge; D29	Yellow/Red
B08	Ignition System	Ignition Switch Terminal 50; Fuel Pump Relay Terminal 7 (internal); Airbag Control Unit (1990+); C18; D24	Red/Black
B09	Wiper Switch Power	D20; Intermittent Wiper Relay Terminal 15; Intermittent Wiper Switch Terminal 53a	Black/Gray
B10	Load Reduction/Ignition System	Load Reduction Relay Terminal 86; Light Switch Terminal X	Black/Yellow
B11	Cigarette Lighter, Radio, Amplified Speakers	Fuse 3; E3; B12; Cigarette Lighter; Radio	Red/Gray
B12	Instrument Cluster	Digital Clock; E3; B11	Red
B13	Headlights	Headlight Dimmer/Flasher Switch	Red/Yellow
B14	Key-In Power	K5	-
B15	Gauge Cluster (Oil Pressure Light Controller)	High Oil Pressure Switch	Yellow
B16	Fog Light Switch	Fuse 6, C22	White/Yellow
B17	Seat Belt Warning System	Seat Belt Relay Terminal L; Seat Belt Warning Light	White/Violet
B18	Up-shift System	Upshift Relay Terminal G (internal); D3	-
B19	Instrument Cluster	Up-shift Relay Terminal 1; Tachometer; Fuel Pump Relay (internal); D26	Red/Black
B20	Fog Light Switch	Fog Light Relay Output	Green/Yellow
B21	Rear Window Defroster	E15; Rear Window Defroster Switch Terminal 86	White/Green
B22	High Beam Switch, high beam output	Fuse 9; Fuse 10; Headlight Dimmer/Flasher Switch Terminal 56a	White
B23	Light Switch Power	Light Switch Terminal 30	Red
B24	-	C11	-
B25	Horns	C15; L2	Brown/Black
B26	Light Switch	B27; A24; Fuse 8	Gray/Green
B27	Light Switch	B26; A24; Light Switch Terminal 58; Fuse 20; Relay 7 (internal)	Gray/Green
B28	Emergency Flasher Switch Power	Fuse 4; Emergency Flasher Switch Terminal 30	Red/White
<b>C</b>	<b>Engine Compartment/Management, Left</b>		<b>Yellow Plug</b>
<b>Pin</b>	<b>Description</b>	<b>Goes To</b>	<b>Wire Color</b>
C01	Ignition: Brake Light Switch, Cruise Control, A/T Shiftlock Control Unit	E16; Brake Light Switch A/T 1990+: Shift Lock Control Unit; E16; Brake Light Switch Cruise Control: E16; Brake Light Switches; Vacuum Valve; Cruise Control Control Unit	Red/Black
C02	Alternator Exciter Circuit/Charging System	D+ on Alternator; A16; D4	Blue
C03	Brake Lights	Fuse 2; Brake Light Switch Cruise Control: C1; Fuse 2; Brake Light Switches	Red/Yellow
C04	Running Lights ~ Left	E9; Front Parking Light; Side-marker Lights	Gray/Black & Gray
C05	Headlights ~ Lo-beam	Fuse 21; Left Headlight	Yellow/Black
C06	Headlights ~ Lo-beam	Fuse 22; Right Headlight	Yellow
C07	Radiator Cooling Fan	Fuse 1; Air Conditioning Relay Terminal 4 (internal); Radiator Fan Thermo Switch	Red

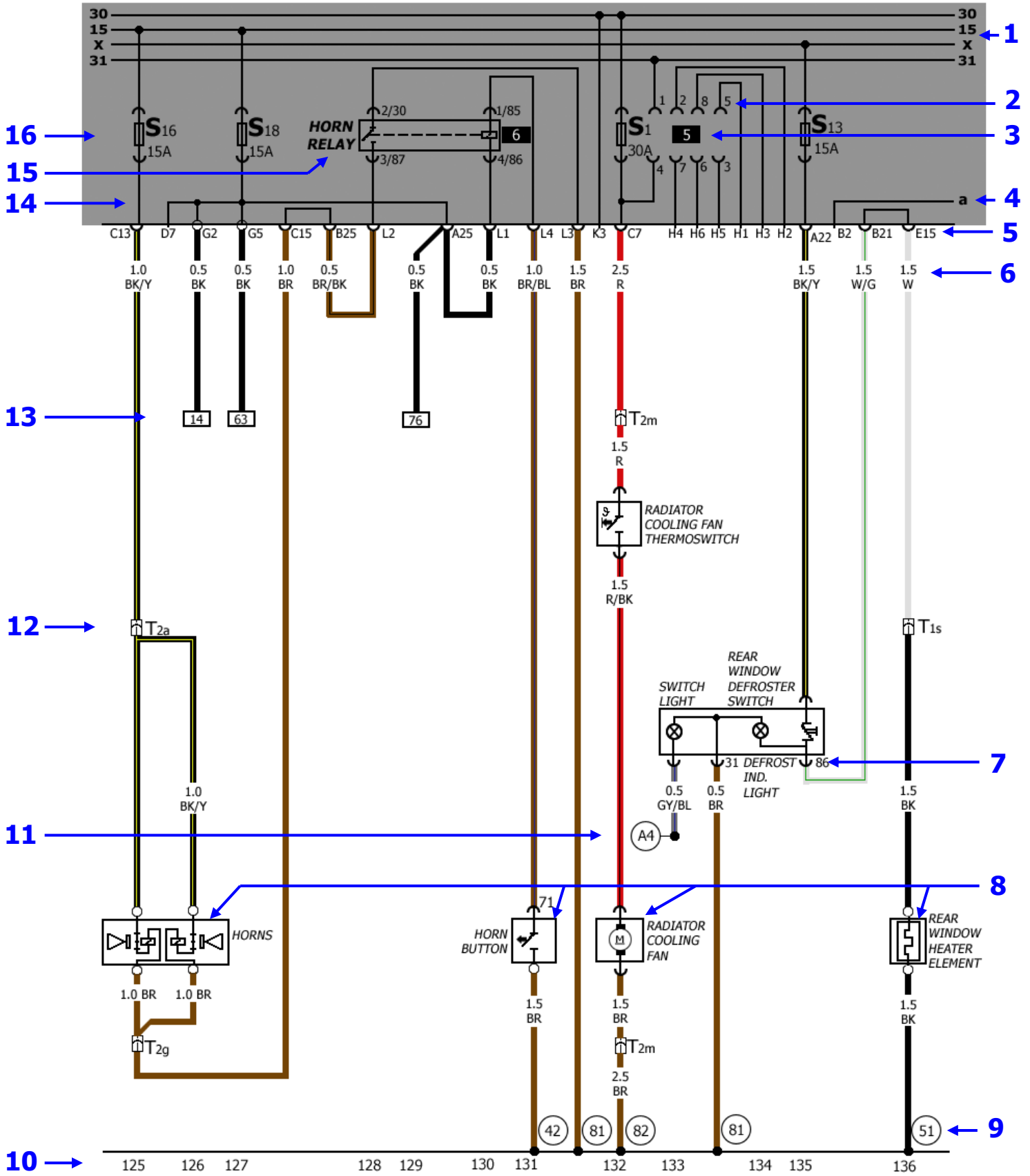
C08	Emergency Flashers/Turn Signals	Turn Signal Light ~ Right Front	Black/Green
C09	Windshield Washer	G10; D5; A19; Windshield Washer Pump	Green/Red
C10	-	(no pin)	-
C11	-	B24	-
C12	Brake Warning System	A15; Brake Fluid Level Switch	Blue/Red or Blue/Brown
C13	Horns	Fuse 16; Horns	Black/Yellow
C14	Running Lights ~ Right	Fuse 8; E18; Front Parking Light; Side-marker Lights	Gray/Red & Gray
C15	Horns	B25; Horns (ground)	Brown
C16	Headlights ~ Hi-beam	Fuse 9; Right Headlight(s)	White
C17	Headlights ~ Hi-beam	Fuse 10; Left Headlight(s)	White/Black
C18	Ignition; Warning Lights	K-Jetronic: Hot-start Pulse Relay Terminal 50; Thermo Time Switch; Fuel Pump Relay (internal) Digifant: ECU pin 1 All: E-brake Warning Light; B8; D24	Red/Black
C19	Emergency Flashers/Turn Signals	Turn Signal Light ~ Left Front; A20; E6; D11	Black/White
C20	Back-up Lights	Fuse 15; D16; Back-up Light Switch; Cooling Fan After-run Control Unit (1990+)	Black
C21	Back-up Lights	Back-up Light Switch; E12 (A/T 1990+); D19 (A/T 1990+)	Black/Blue
C22	Fog Lights	Fuse 6, B16	White/Yellow
<b>D</b>	<b>Engine Compartment/Management, Right</b>		<b>White Plug</b>
<b>Pin</b>	<b>Description</b>	<b>Goes To</b>	<b>Wire Color</b>
D01	Low Oil Pressure Switch	Oil Pressure Switch (1.8 bar); G6; A4	Blue/Black
D02	Fuel System	Fuse 17 Digifant I: Fuse 17; R1	Black
D03	Up-shift Indicator	Up-shift Switch Terminal 5; B18	White/Green
D04	Alternator Exciter Circuit/Charging System	Oxygen Sensor Mileage Counter Box; A16; G4; C2	Blue
D05	Intermittent Wipers	A19; G10; C9	-
D06	-	(no pin)	-
D07	Idle Stabilizer Control Unit; Seat Belt Warning; Oil Temperature Gauge	G2; G5; A25; Coolant Low-level Control Unit (A/T 1990+)	Black/Blue
D08	Up-shift Indicator	Up-shift Vacuum Switch; Up-shift Control Unit Terminal US	White/Red
D09	Wiper Motor ~ High Speed	A5; Wiper Motor Terminal 53b	Green/Yellow
D10	-	(no pin)	-
D11	Emergency Flashers/Turn Signals	E6; C19; A20	-
D12	Wiper Motor ~ Low Speed	Wiper Motor Terminal 53; Intermittent Wiper Relay Terminal 53	Green
D13	Fuel System	Fuel Pump Relay Terminal 6 (internal); Digifant Control Unit Terminal 3	Yellow/Blue and Red/Yellow
D14	-	(no pin)	-
D15	Resistance Wire, Coil Pin 15 (Europe only)	D23	White/Violet
D16	Back-up Lights	C20 1990+ A/T: Fuse 15; Back-up Light/Starter Cut-out Switch; Shift Lock Control Unit; Starter Interlock Relay	Black
D17	Wiper Motor Switch	A6; Wiper Motor Terminal 53e	Green/Black
D18	-	(no pin)	-
D19	Back-up Lights	E12; C21; Back-up Light Switch/Starter Cut-out Switch (A/T only)	Black/Blue
D20	Wiper Motor Switch	Fuse 11; Wiper Motor Terminal 53a	Black/Gray
D21	Oil Pressure Warning System	Oil Pressure Switch (.3 bar); B15	Yellow
D22	Wiper Motor	Main Panel Ground	Brown
D23	Ignition System	Coil Terminal 15; D15 Digifant I: D25; Ignition Coil Power Stage	Black
D24	Ignition System	B8; C18; Fuel Pump Relay Terminal 7; Starter Terminal 50, or Auto. Trans. Starter Interlock Relay Terminal 31	Red/Black or Red
D25	Emergency Flashers/Turn Signals	C8; E11; A7	-
D26	Ignition System	Ignition Coil Terminal 1; Idle Stabilizer Relay Terminal 1; Fuel Pump Relay (internal); B19	Red/Black
D27	-	(no pin)	-
D28	-	(no pin)	-
D29	Coolant Temperature Warning System	Coolant Temperature Gauge Sender; Coolant Low-level Control Unit (1990+); B7	Yellow/Red or Yellow/Blue

<b>E Rear Wiring Harness</b>				<b>Black Plug</b>
<b>Pin</b>	<b>Description</b>	<b>Goes To</b>	<b>Wire Color</b>	
E01	Lights	License Plate Lights; Trunk Light; Fuse 20	Gray/Green	
E02	-	Relay 11	-	
E03	Interior Lighting	Courtesy Light; B11; B12	Red	
E04	-	B4	-	
E05	Instrument Cluster	Fuel Gauge Sending Unit; B3	Violet/Black	
E06	Emergency Flashers/Turn Signals	Turn Signal Light ~ Left Rear	Black/White	
E07	-	A14; Relay 11	-	
E08	Heated Seats	Relay 11; G3; G1	Black/Gray	
E09	Running Lights ~ Left	Fuse 7; C4; Tail Light	Gray/Black	
E10	Rear Fog Light (Europe Only)	B2	Green/White	
E11	Emergency Flashers/Turn Signals	Turn Signal Light ~ Right Rear	Black/Green	
E12	Back-up Lights	D19; C21; Back-up Lights; C21 (A/T 1990+)	Black	
E13	-	B1	-	
E14	Fuel System	Fuel Pump; Transfer Fuel Pump; Aux. Air Regulator; Control Pressure Regulator; Fuse 5 to Fuel Pump Relay; Oxygen Sensor (1988+)	Red/Yellow and Red/White	
E15	Rear Window Defroster	B21; Rear Window Defroster Element	White & Black	
E16	Brake Lights	C1; Brake Lights ~ Left, Right, High-Mount in Trunk Lid	Black/Red	
E17	-	-	-	
E18	Running Lights ~ Right	C14; Tail Light	Gray/Red	
<b>G Individual Circuits</b>				<b>-</b>
<b>Pin</b>	<b>Description</b>	<b>Goes To</b>	<b>Wire Color</b>	
G01	Power Windows; Heated Seats	Fuse 12; E8; G3	-	
G02	Idle Boost Control Unit	D7; G5; A25; Idle Boost Control Unit A/T only: G5; D7; A25; Fuse 18; Back-up Light/Starter Cut-out Switch	Black	
G03	Heated Seat Control Units	Fuse 12; E8; G1; Heated Seats Control Units; Heated Seats Switch	Black/Red and Black	
G04	Alternator Exciter Wire	A16, D4	-	
G05	Seat Belt/Brake Warning System	G2; D7; A25; Fuse 18; Seat Belt Indicator Light; E-brake Indicator Light; June 1990+: Auto Trans park-neutral switch	Black	
G06	Oil Pressure Warning System	D1; A4	-	
G07	-	A9; M1	-	
G08	Interior Lighting (dimmer controlled)	A1; Instrument Cluster Wiring Harness; A/T Shift Console Light; Power Convertible Top Switch Light	Gray/Blue	
G09	Parking Lights	A26; E1	-	
G10	Headlight Washer Relay (Europe only)	A19; D5; C9	Green/Red	
<b>H HVAC Wiring Harness</b>				<b>Brown Plug</b>
<b>Pin</b>	<b>Description</b>	<b>Goes To</b>	<b>Wire Color</b>	
H01	Radiator Cooling Fan	A/C Relay; Fuse 1; C7; Cooling Fan Thermo Switch; Cooling Fan	Red/Black	
H02	HVAC System	HVAC Fan Switch Speed 1; HVAC Blower Fan; A/C Relay; H6	Red/Black and Black/Yellow	
H03	HVAC System	A/C Relay; Battery via Fuse 23	Red	
H04	HVAC System	A/C Relay; A/C Thermostat; A/C Compressor Clutch; Idle Stabilizer Valve	Green	
H05	HVAC System	HVAC Fan Switch Speed 4; A/C Relay (internal)	Black	
H06	HVAC System	HVAC Fan Switch Speed 1; HVAC Blower Fan; A/C Relay; H2	Red/Black and Black/Yellow	
<b>K Seat Belt/Coolant level Warning Wiring Harness</b>				<b>White</b>
<b>Pin</b>	<b>Description</b>	<b>Goes To</b>	<b>Wire Color</b>	
K01	Seat Belt Warning System	Seat Belt Relay Terminal G; Seat Belt Switch	Gray/Red	
K02	Seat Belt Warning System	Seat Belt Relay Terminal 2 (internal)	-	
K03	-	Relay Panel Power	-	
K04	Seat Belt Warning System	Seat Belt Relay Terminal 86; Door Contact Switch (left); Seat Belt Switch	Gray & Black/Green	
K05	Ignition Switch Key-In Power	Ignition Switch Terminal SU; Seat Belt Warning Relay Terminal 85; Power Convertible Top Switch; Relay 5 (internal)	Brown/Red	

<b>L Horn Wiring Harness</b>			<b>Black Plug</b>
<b>Pin</b>	<b>Description</b>	<b>Goes To</b>	<b>Wire Color</b>
L01	Horns	A25; Horns Relay Terminal 86	Black
L02	Horns	B25; Horns Relay Terminal 87	Brown/Black
L03	Horns	Horns Relay Terminal 30; Dash Wiring Harness	Brown
L04	Horns	Horns Relay Terminal 85; Horn Button	Brown/Blue
<b>M Steering Column Switch or Headlight/Dimmer Switch Wiring Harness</b>			<b>Black Plug</b>
<b>Pin</b>	<b>Description</b>	<b>Goes To</b>	<b>Wire Color</b>
M01	-	A9; G7	-
M02	Headlights	A21	-
<b>N Individual Circuit, Fuel Injection</b>			<b>Red Plug</b>
<b>Pin</b>	<b>Description</b>	<b>Goes To</b>	<b>Wire Color</b>
N	Fuel System Power ~ K-Jetronic	Fuel Pump Relay Terminal 87 and Fuse 5 (internal); Fuel Injection Power Supply Relay Terminal 86	Red/Black
N	Fuel System Power ~ Digifant	Fuel Pump Relay Terminal 87 and Fuse 5 (internal); Fuel Injectors	Red
<b>P Individual Circuits, Battery Power (unfused, unswitched)</b>			<b>-</b>
<b>Pin</b>	<b>Description</b>	<b>Goes To</b>	<b>Wire Color</b>
P7	Battery	Main Fusebox Battery Power	Red
P	Automatic Transmission (1990+)	Starter Interlock Relay Terminal 30	Red
P	Power Seat Height Adjust Fuse	Main Fusebox Battery Power	Red
P	Power Windows	Relay Position 17; Power Window Control Unit	Red
P6	Ignition Switch Power	Ignition Switch Terminal 30	Red
P	Fuel System Power ~ K-Jetronic	Fuel Injection Power Supply Relay Terminal 30	Red
P	Headlight Washer Relay (Europe only)	Main Fusebox Battery Power	Red
<b>R ECU Power Supply Wiring Harness</b>			<b>Green Plug</b>
<b>Pin</b>	<b>Description</b>	<b>Goes To</b>	<b>Wire Color</b>
R01	Airbag System	Digifant Relay Terminal 86; Airbag Control Unit; D2	Black
R02	Digifant ECU, Injectors	Digifant Control Unit Terminal 14; Digifant Relay Terminal 87	Black/Yellow

**Please consult wiring diagrams for your particular car for precise wire routing and colors.**

# How To Read Current Flow Wiring Diagrams



## 1 Circuits

**15:** Originates at ignition switch. Supplies battery power when ignition switch is in ON or START position.

**X:** Load-reduction relay circuit. Originates at ignition switch. Supplies power only when ignition switch is in ON position. Circuit is interrupted when ignition switch is turned to START.

**50:** Supplies battery power when ignition switch is in START position.

**30:** Battery positive (+) voltage. Supplies power whenever battery is connected (i.e. not dependent on ignition switch position).

**31:** Ground; battery negative (-).

## 2 Individual terminal numbers in a multi-point/multi-pin connector

## 3 Relay position number on the relay panel

## 4 Reference of internal connection continuation

Letters indicate where connection continues on the previous and/or following diagram.

## 5 Connections at rear of panel

Designations of each pin connection. For example, C13 is referring to connector C, pin number 13.

## 6 Wire size and wire color(s)

Color abbreviations are listed in a key on each diagram.

## 7 Terminal designation on component

## 8 Component

In this example, from left to right, the components are: Horns, horn button, fan motor, window heating element.

## 9 Ground connection locations

Locations are defined in the diagram index.

## 10 Current flow track number

## 11 Wire connection designation in wire harness

Locations are defined in the diagram index.

## 12 Connector in wire or wire harness

T1 = 1-point terminal connector; T2 = 2-point terminal connector; etc. Locations are defined in the diagram index.

## 13 Current flow track continuation

Number in box indicates the current flow track number where wire is continued.

## 14 Internal connection inside relay panel

D7 connects internally to G2, G5 and A25.

## 15 Terminal number on relay

85 = Ground side of switching relay

86 = Power-in side of switching relay

87 = Relay switch contact

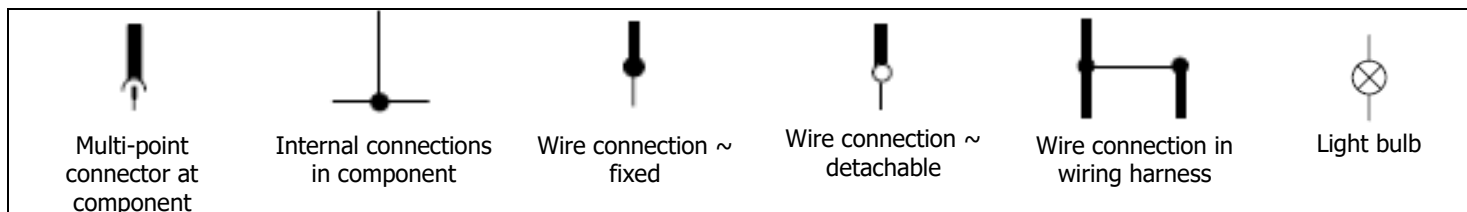
87a = Normally closed switch contact

87b = Normally open switch contact

1, 31b = Ground from coil

## 16 Fuse position and amperage

**How the horn circuit works (use illustration on previous page):** Pressing the horn button closes the contacts sending an electrical signal to relay 6, which triggers terminal 30 to contact terminal 87, completing the path to ground, which closes the circuit sending power to the horns making them honk.

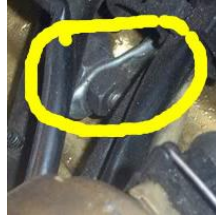


# Ground Locations

## 1980-1986

Main ground cables/straps:

- Battery to the left frame rail; frame rail to the transmission
  - M/T: On bell housing to the right and rear (as looking at it from front of car) of clutch cable:
  - A/T: On mounting stud behind ignition distributor:
- Valve cover to the ignition coil bracket
- Fender to hood
- A/C compressor to battery (or engine block)
- Ignition Control Unit to battery



Ground locations:

- Fuse/relay panel
- Steering column
- Cold-start valve (K-Jetronic only)
- Trunk, rear left and right
- Dash wiring harness

## 1987-1989

Main ground cables/straps:

- Battery to the left frame rail; frame rail to the transmission (see examples above)
  - M/T: On bell housing to the right and rear (as looking at it from front of car) of clutch cable
  - A/T: On mounting stud behind ignition distributor
- Valve cover to the ignition coil bracket
- Fender to hood
- A/C compressor to engine block (or alternator)
- Ignition Control Unit to battery

Ground locations:

- Fuse/relay panel
- Steering column
- Cold-start valve (K-Jetronic only)
- Trunk, rear left and right
- Dash wiring harness
- Engine bay, front left and right ('88+)

## 1990-1993

Main ground cables/straps:

- Battery to the left frame rail; frame rail to the transmission (see examples above)
  - M/T: On bell housing to the right and rear (as looking at it from front of car) of clutch cable
  - A/T: On mounting stud behind ignition distributor
- Valve cover to the ignition coil bracket
- Fender to hood
- Digifant ECU to firewall
- A/C compressor to engine block (or alternator)

Ground locations:

- Fuse/relay panel
- Instrument cluster wiring harness
- Steering column
- Trunk, rear left and right
- Engine bay, front left and right
- Horns ('91+)

## Wire Size Conversions

Metric Size	American Wire Gauge (AWG) Size	General wire size guidelines
0.35	22	<p>16 gauge: 10 amps max 14 gauge: 15 amps 12 gauge: 20 amps 10 gauge: 30 amps 8 gauge: 40 amps</p> <p>If your runs are going to be longer than about 30 feet of total wire length, bump up to the next size wire to reduce voltage drop on a 12V system.</p>
0.5	20	
0.75	18	
1.0	16	
1.5	14	
2.5	12	
4.0	10	
6.0	8	
16.0	4	
25.0	2	