

# Volkswagen Cabriolet DIY Guide

## Relay/Fuse Diagrams & Electrical System

### Notes:

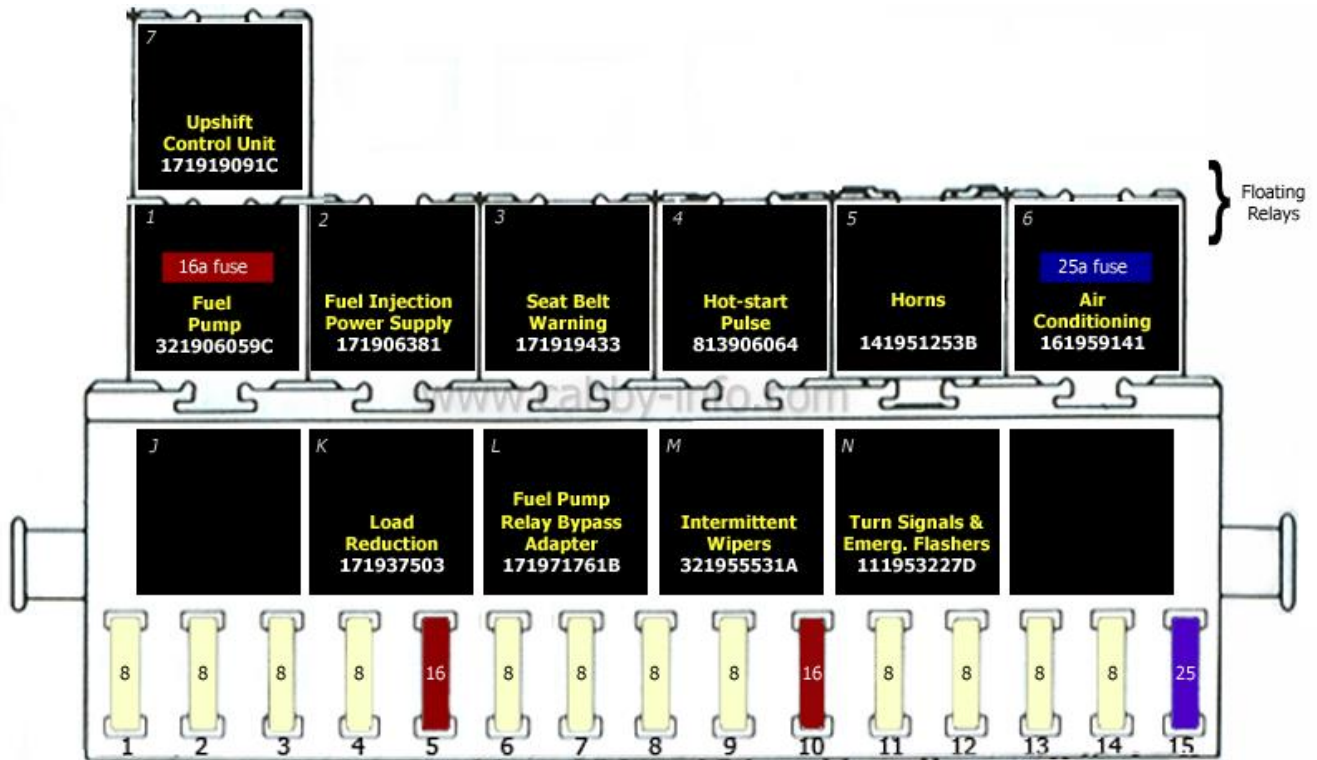
- 1980-1982 cars use ceramic fuses!
- 1980-1982 cars had a recall for the fuel pump relay. These cars should have a relay bypass adapter installed in the original fuel pump relay location (position L), which is then connected to the fuel pump relay that has been relocated to the top of the panel.
- If 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.

### Index:

|  |         |
|--|---------|
| 1980 to 1982 Diagram (K-Jetronic) .....      | Page 2  |
| 1983 to 1985 Diagram (K-Jetronic) .....      | Page 3  |
| 1986 to June 1987 Diagram (K-Jetronic) ..... | Page 4  |
| July 1987 to 1993 Diagram (K-Jetronic).....  | Page 5  |
| 1990 to 1993 Diagram (Digifant).....         | Page 6  |
| Relay Panel Pin-outs (1980-1982) .....       | Page 7  |
| Relay Panel Pin-outs (1983+) .....           | Page 10 |
| How To Read Current Flow Diagrams .....      | Page 15 |
| Ground Locations .....                       | Page 17 |
| Wire Size Conversion Table.....              | Page 18 |

# Volkswagen Cabriolet Fuse & Relay Panel Diagram

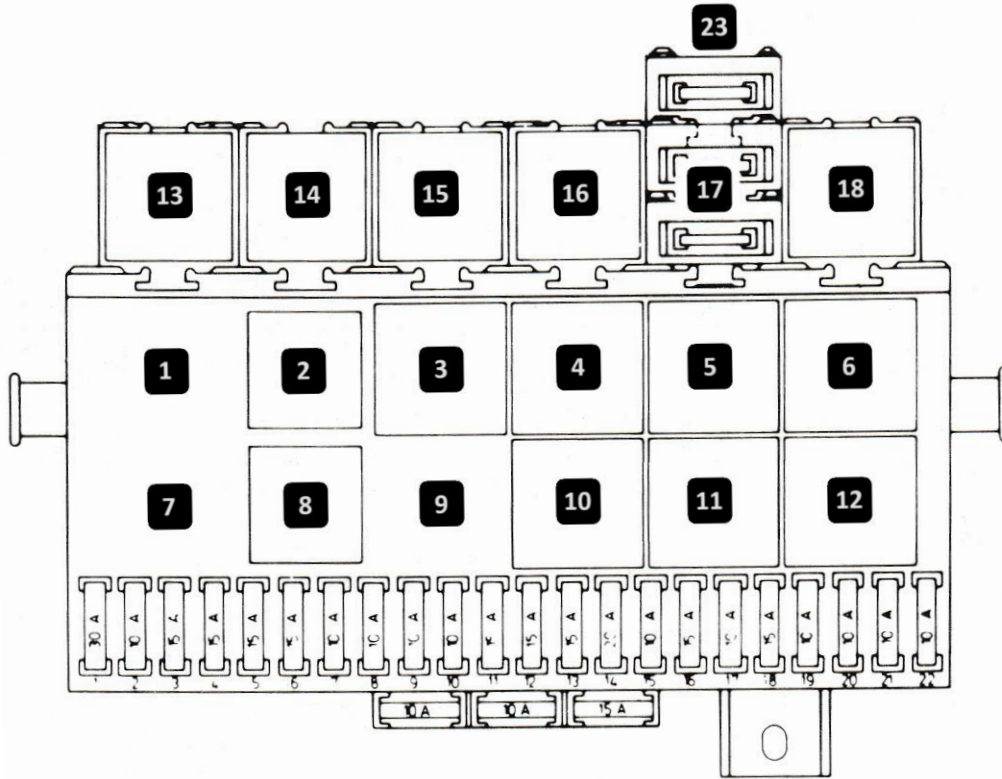
## 1979 – 1982 K-Jetronic



| FUSES |    |   | RELAYS |  |             |
|-------|----|---|--------|--|-------------|
| Pos   |    | Circuit   | Pos    | Component                              | Part Number |
| 1     | 8  | Headlights: Lo-beam (left)                                    | J      |  |             |
| 2     | 8  | Headlights: Lo-beam (right)                                   | K      | Load reduction                         | 171937503A  |
| 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

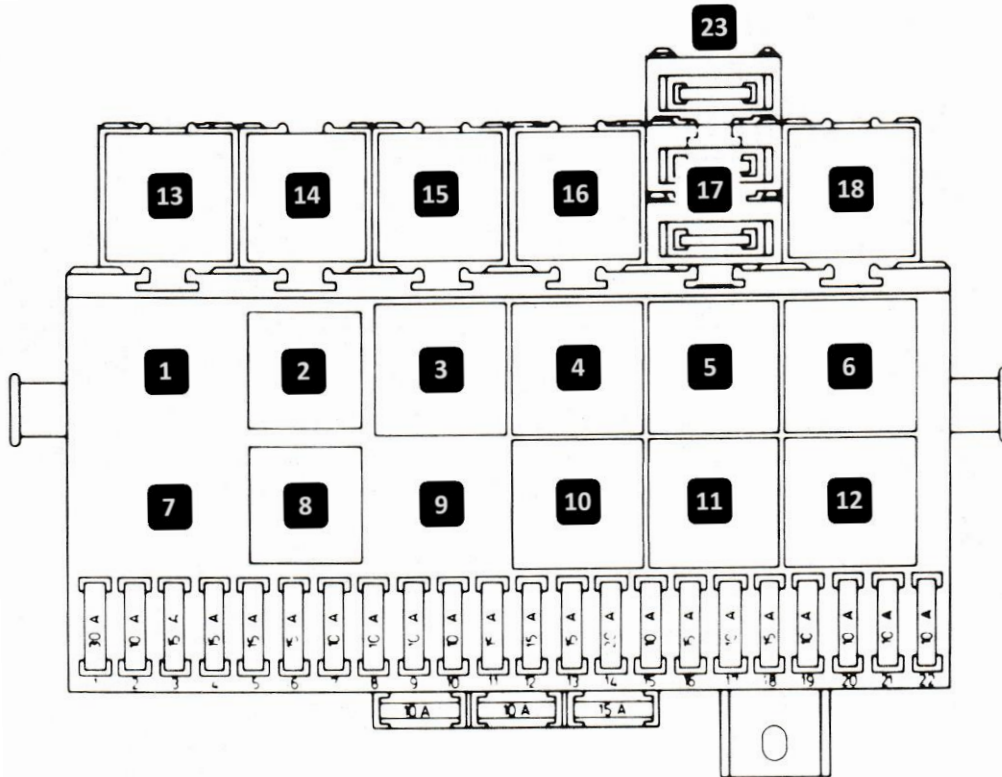
## 1983 – 1985 K-Jetronic



| 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)                    | 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)   | 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 thermofuse (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

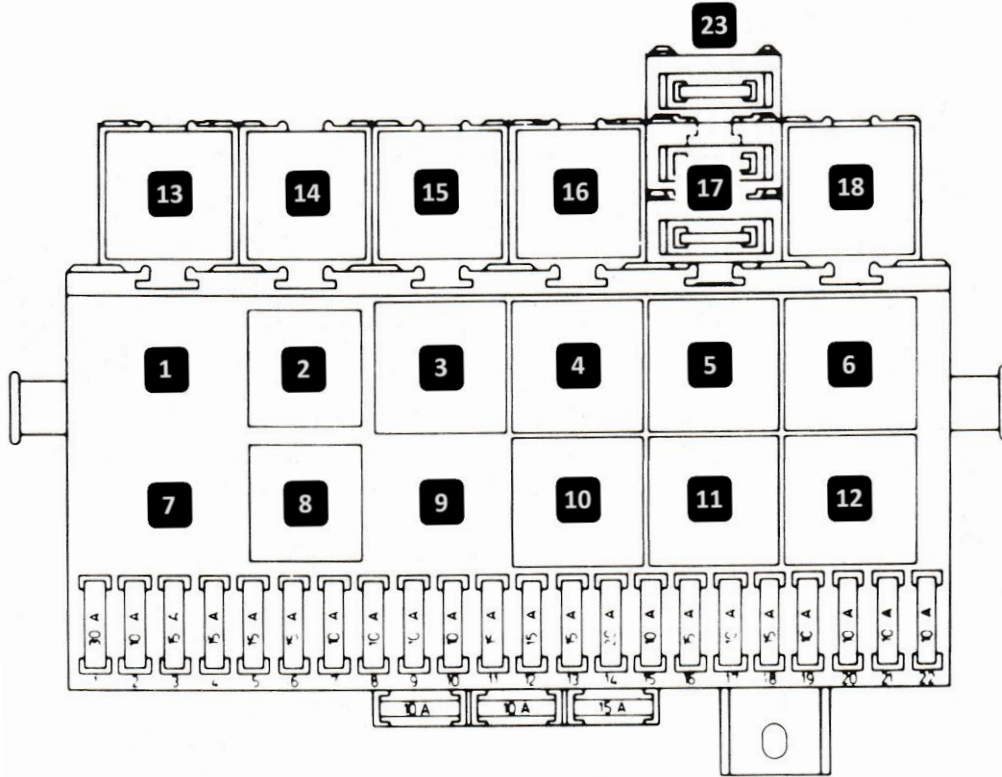
## 1986 – June 1987 K-Jetronic



| FUSES |      |  | RELAYS |                                 |             |
|-------|------|--|--------|---------------------------------|-------------|
| Pos   | Amps | Circuit  | Pos    | Component                       | Part Number |
| 1     | 30   | Radiator cooling fan   | 1      |                                 |             |
| 2     | 10   | Brake lights; cruise control   | 2      | Fuel pumps                      | 321906059E  |
| 3     | 15   | Cigarette lighter; clock; radio; interior lights   | 2      | Fuel pumps                      | 321906059F  |
| 4     | 15   | Emergency flashers   | 3      | Seat belt warning/door chime    | 321919433B  |
| 5     | 15   | Fuel pumps   | 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 thermofuse (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

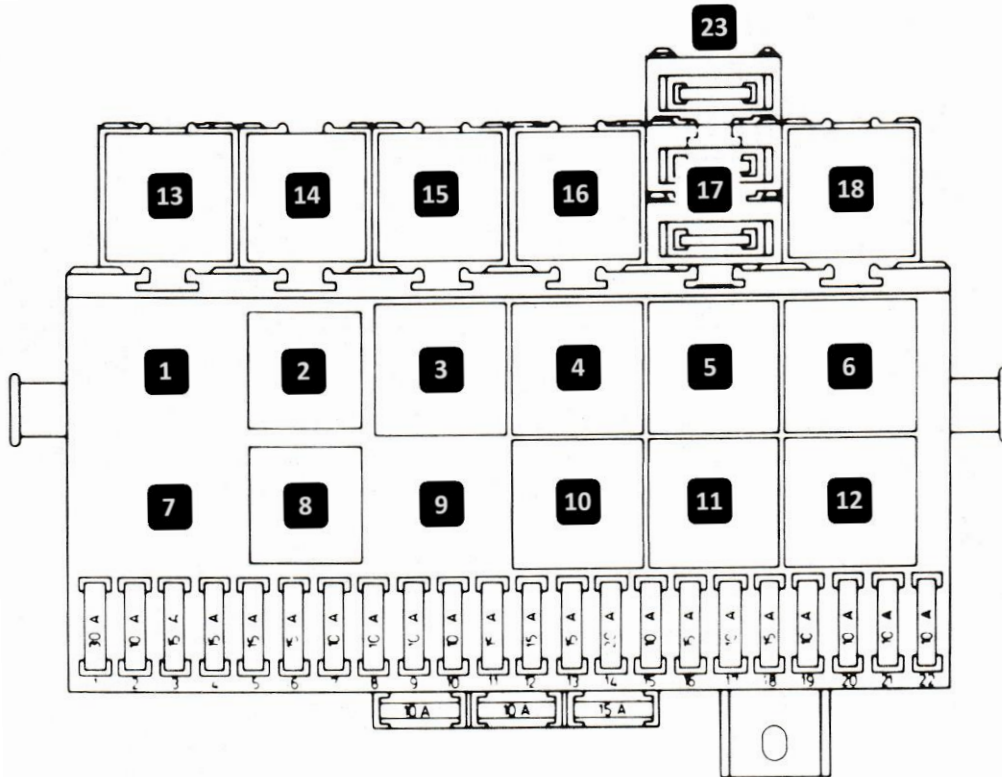
## 1988 – 1993 K-Jetronic



| FUSES |      |  | RELAYS |                                 |             |
|-------|------|--|--------|---------------------------------|-------------|
| Pos   | Amps | Circuit  | Pos    | Component                       | Part Number |
| 1     | 30   | Radiator cooling fan   | 1      |                                 |             |
| 2     | 10   | Brake lights; cruise control   | 2      | Fuel pumps                      | 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; 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             | 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    |      | <i>Open</i>  | 17     | A/C thermofuse (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; trunk light  |        |                                 |             |
| 21    | 10   | Headlights: Lo-beam (left)   |        |                                 |             |
| 22    | 10   | Headlights: Lo-beam (right)  |        |                                 |             |
|       |      |  |        | * DX and KT engines only        |             |

# Volkswagen Cabriolet Fuse & Relay Panel Diagram

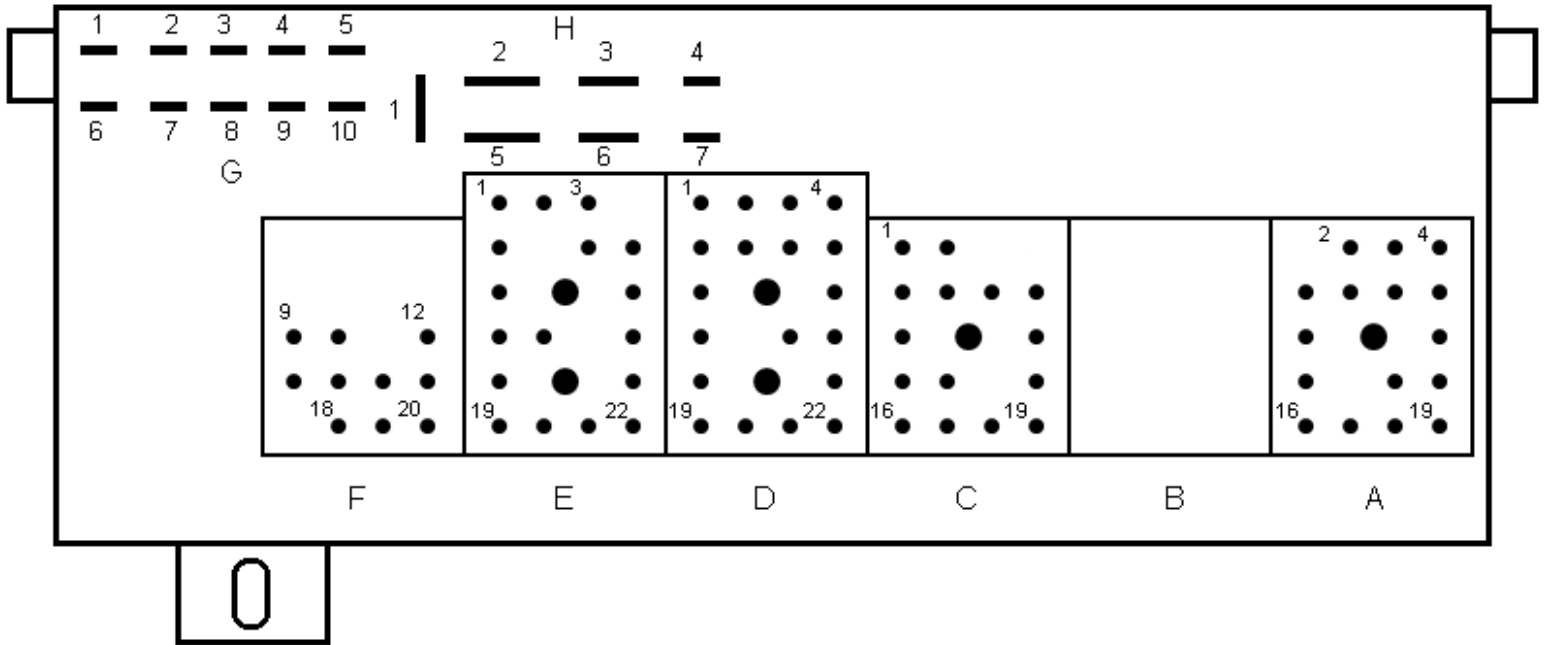
## 1990 – 1993 Digifant



| 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 pumps                        | 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 thermofuse (30 amp)           |             |
| 18    | 15   | Seat belt warning; horn relay; coolant warning light; console gauges; heated seats; 1990 A/T: cruise ctrl. | 17     | Power windows thermofuse (20 amp) |             |
| 19    | 10   | Turn signals; brake warning light  | 23     | Power top thermofuse (10 amp)     |             |
| 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)



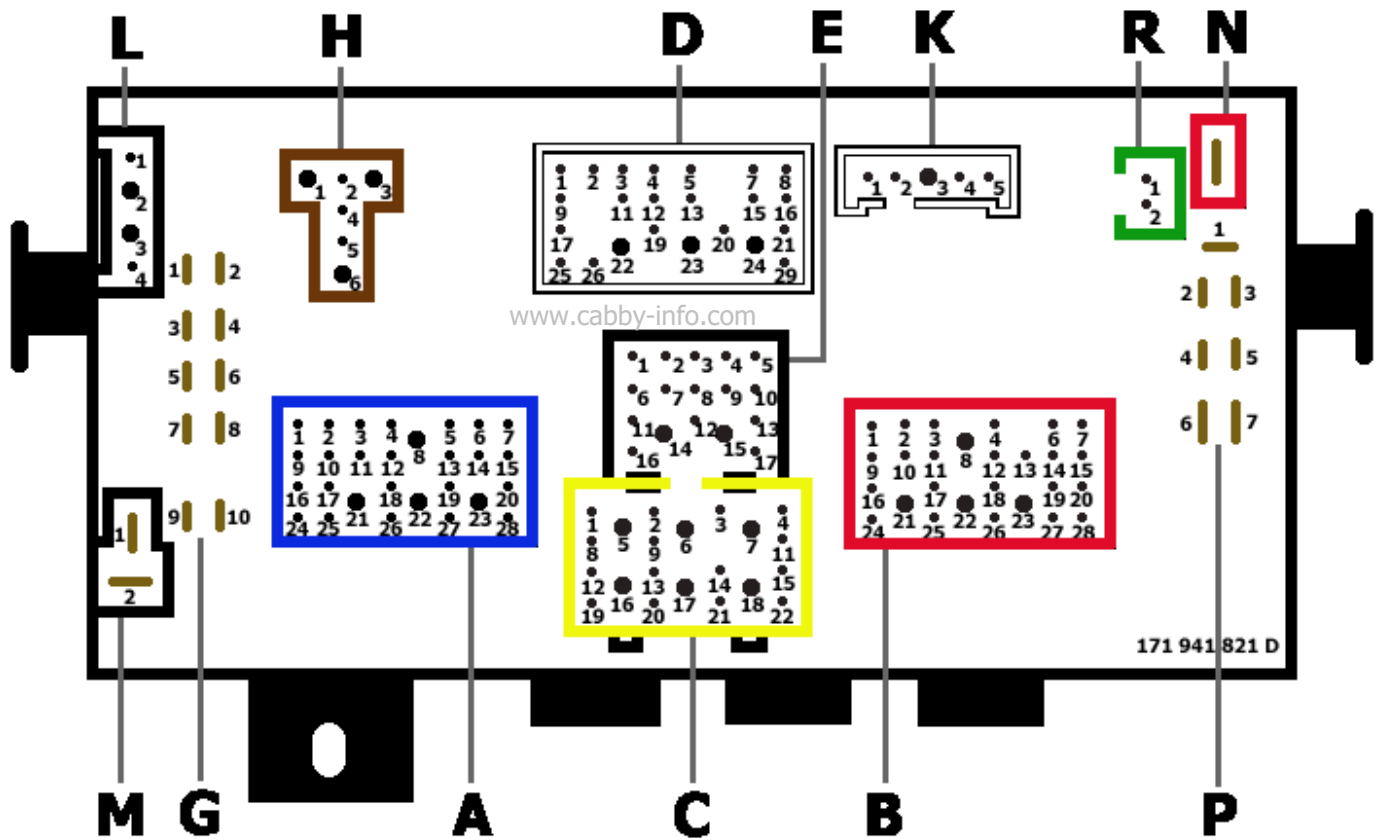
| A Left Harness  |                                     |   |              |
|-----------------|-------------------------------------|---|--------------|
| Pin             | Circuit                             | Goes To   | Wire Color   |
| A2              | Spare wire                          | D4 internally   | 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<br>Canada 1990: M2; Headlight Switch Terminal TFL via DRL Resistor<br>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<br>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        | Brake Light Switch, Cruise Control, A/T Shiftlock Control Unit | E16; Brake Light Switch<br>A/T 1990+: Shift Lock Control Unit; E16; Brake Light Switch<br>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<br>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                |

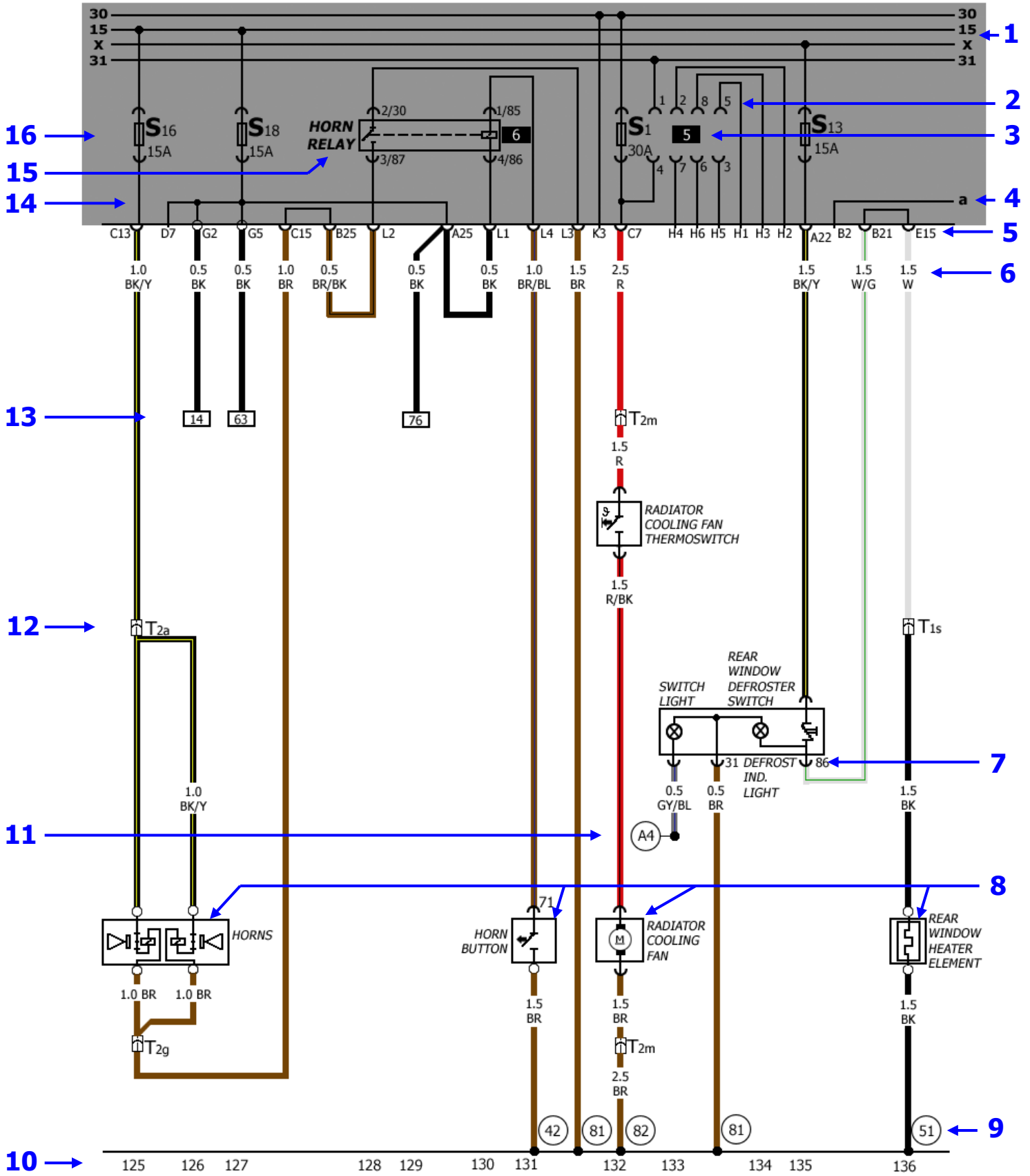
|            |  |   |                            |
|------------|--|---|----------------------------|
| C08        | Emergency Flashers/Turn Signals  | Turn Signal Light ~ Right Front   | Black/Green                |
| C09        | Windshield Washer  | G10; D5; A19; Windshield Washer Pump  | Green/Red                  |
| 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        | Warning Lights   | Hot-start Pulse Relay Terminal 50; E-brake Warning Light; Thermo Time Switch; Fuel Pump Relay (internal); 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<br>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<br>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<br>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<br>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;<br>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      |

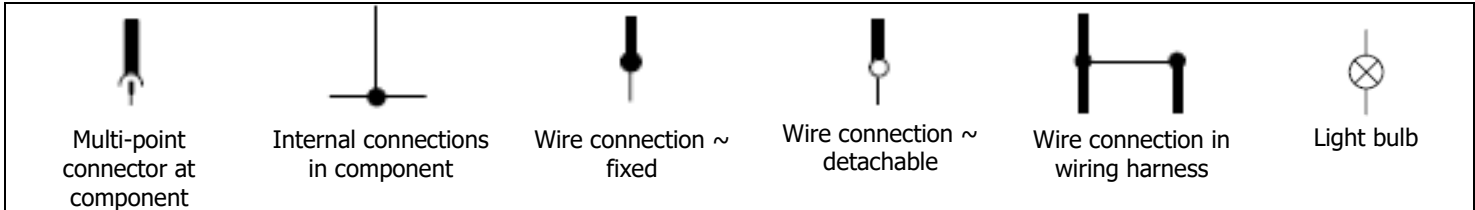
**Please consult wiring diagrams for your particular car for precise wire routing and colors.**

# How To Read Current Flow Wiring Diagrams



- 1 - Circuits**  
**15:** Originates at ignition switch. Supplies 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 starter is actuated.  
**30:** Battery positive (+) voltage. Supplies power whenever battery is connected (i.e. not dependent on ignition switch position).  
**31:** Ground; battery negative (-).
- 2 - Connection designation ~ relay control module on relay panel**  
Shows the individual terminals in a multi-point connector.
- 3 - Relay position number**
- 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. See page 3.
- 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 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 track continuation**  
Number in box indicates the current 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
- 16 - Fuse**  
Indicates fuse position number 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 style="text-align: center;">16 gauge: 10 amps max<br/>                     14 gauge: 15 amps<br/>                     12 gauge: 20 amps<br/>                     10 gauge: 30 amps<br/>                     8 gauge: 40 amps</p> <p style="text-align: center;">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                              |   |