

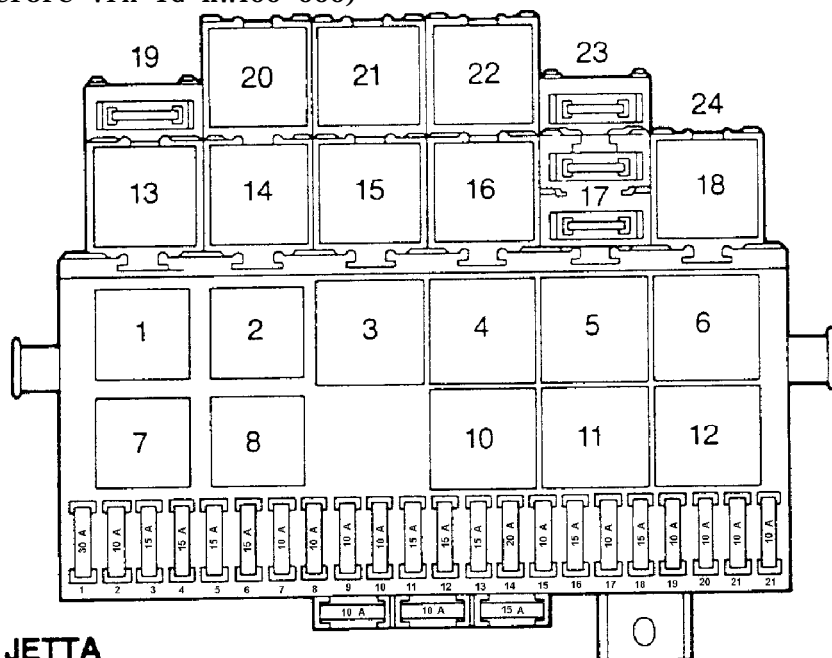
Monday, August 23, 1999 11:48PM

1989-90 VOLKSWAGEN ELECTRIC COMPONENT LOCATOR

Golf, GTI, Jetta

Component	Component Location
A/C Cooling Fan Relay	Attached to upper left corner of fan shroud.

A/C Relay (Before Vin 1G-KW400 000)



- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

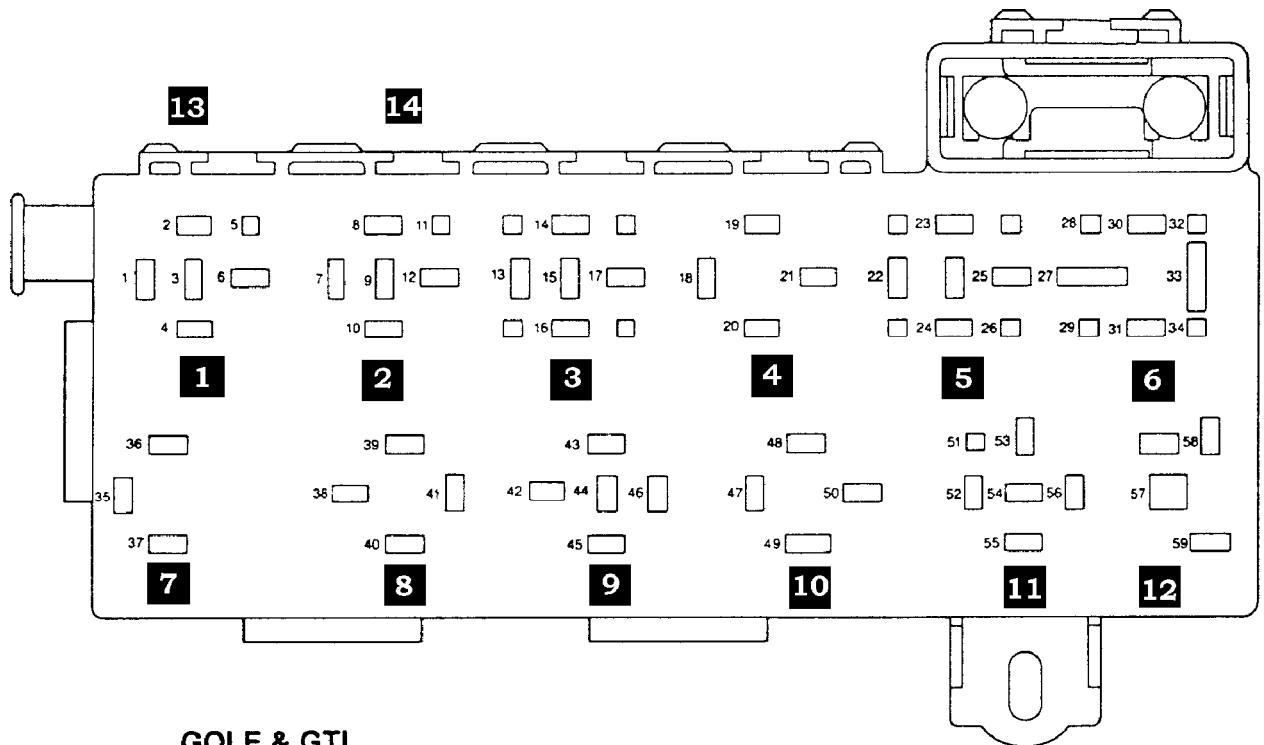
Article Text (p. 2)

1989 Volkswagen Golf

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Monday, August 23, 1999 11:48PM



GOLF & GTI

- | | |
|--------------------------------|----------------------------------------------|
| 1. Intermittent Wiper Relay | 8. Load Reduction Circuit Relay |
| 2. ECU Upshift Relay | 9. Idle Stabilizer Relay |
| 3. Horn Relay | 10. A/C High Blower Relay |
| 4. Low Speed Cooling Fan Relay | 11. Seat Belt Interlock Relay |
| 5. Not Used | 12. Seat Belt Interlock Relay |
| 6. Fuel Pump Relay | 13. O ₂ Sensor System Power Relay |
| 7. Turn Signal/Hazard Unit | 14. Rear Wiper/Washer Relay |
- 50B15587**

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

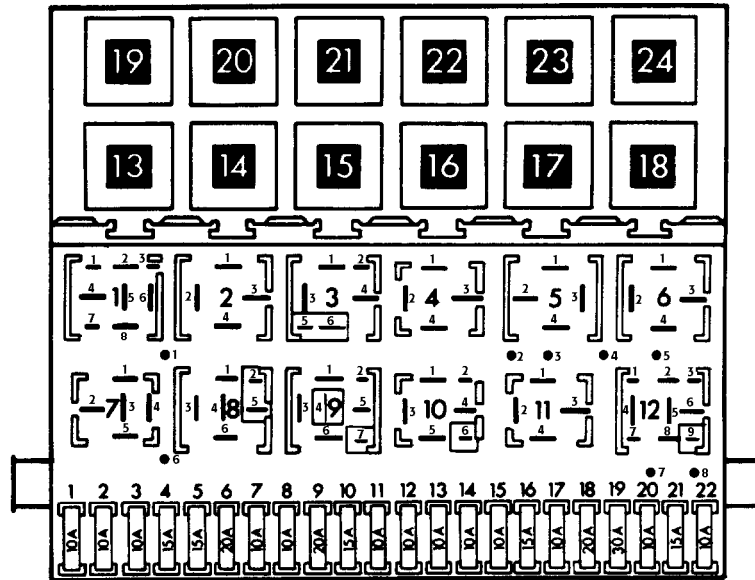
Article Text (p. 3)

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Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

A/C Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 4)

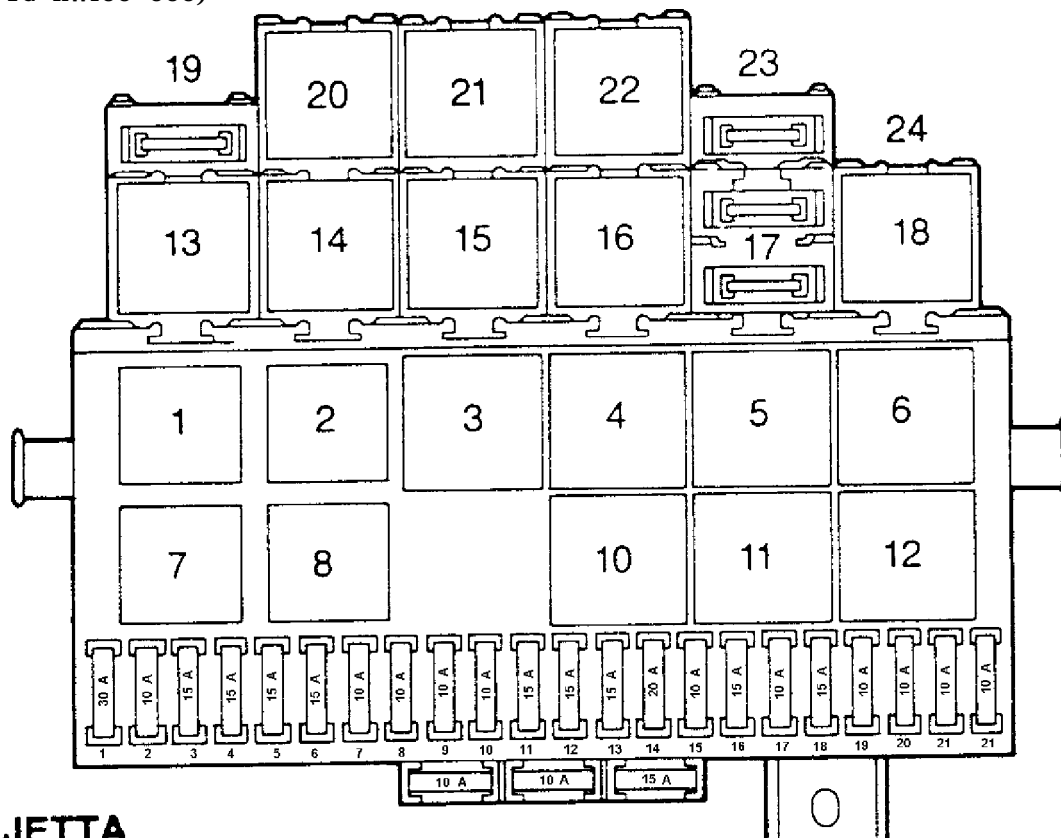
1989 Volkswagen Golf

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Monday, August 23, 1999 11:48PM

Coolant Level Indicator Relay
(Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

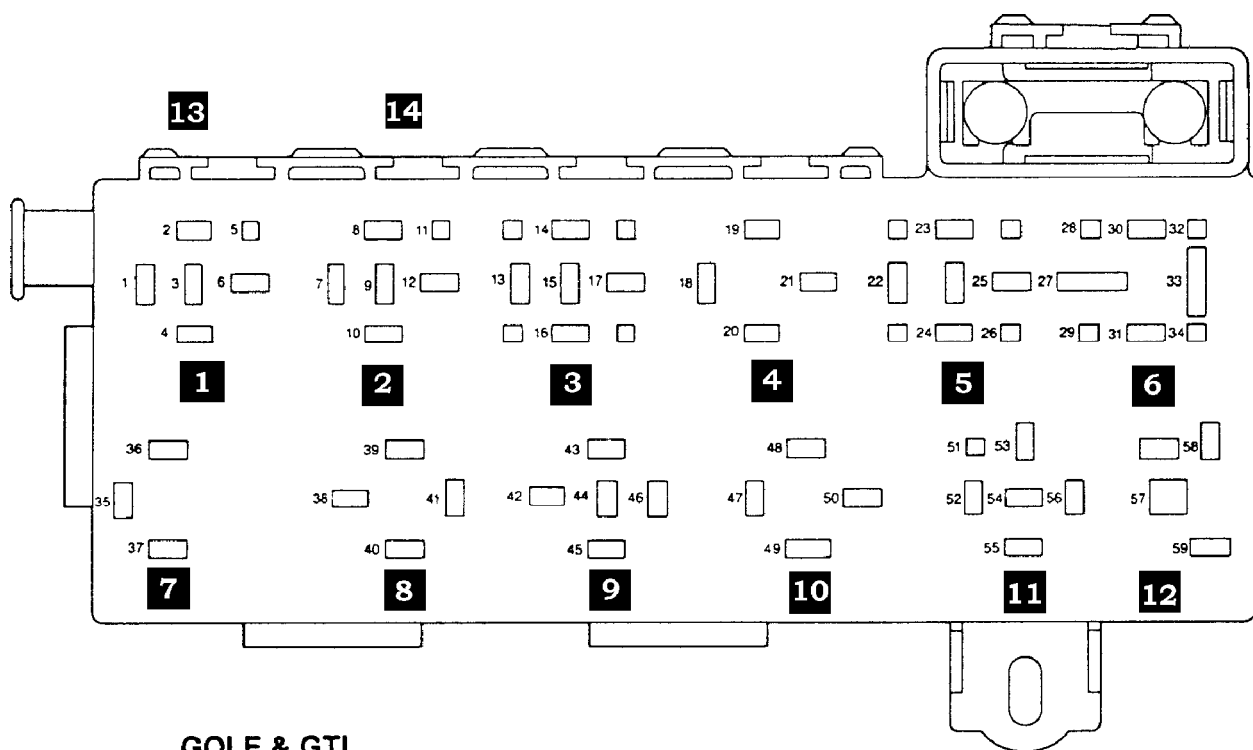
Article Text (p. 5)

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GOLF & GTI

1. Intermittent Wiper Relay
2. ECU Upshift Relay
3. Horn Relay
4. Low Speed Cooling Fan Relay
5. Not Used
6. Fuel Pump Relay
7. Turn Signal/Hazard Unit

8. Load Reduction Circuit Relay
9. Idle Stabilizer Relay
10. A/C High Blower Relay
11. Seat Belt Interlock Relay
12. Seat Belt Interlock Relay
13. O₂ Sensor System Power Relay
14. Rear Wiper/Washer Relay

50B15587

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

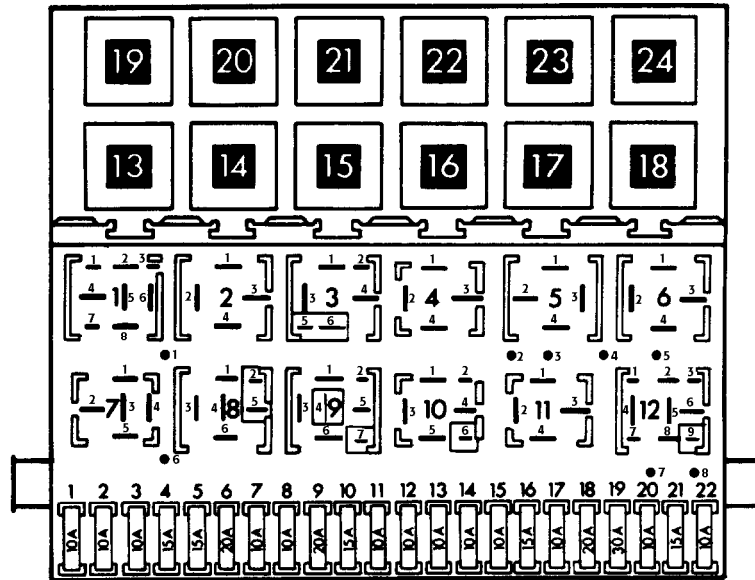
Article Text (p. 6)

1989 Volkswagen Golf

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Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Coolant Level Indicator Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 7)

1989 Volkswagen Golf

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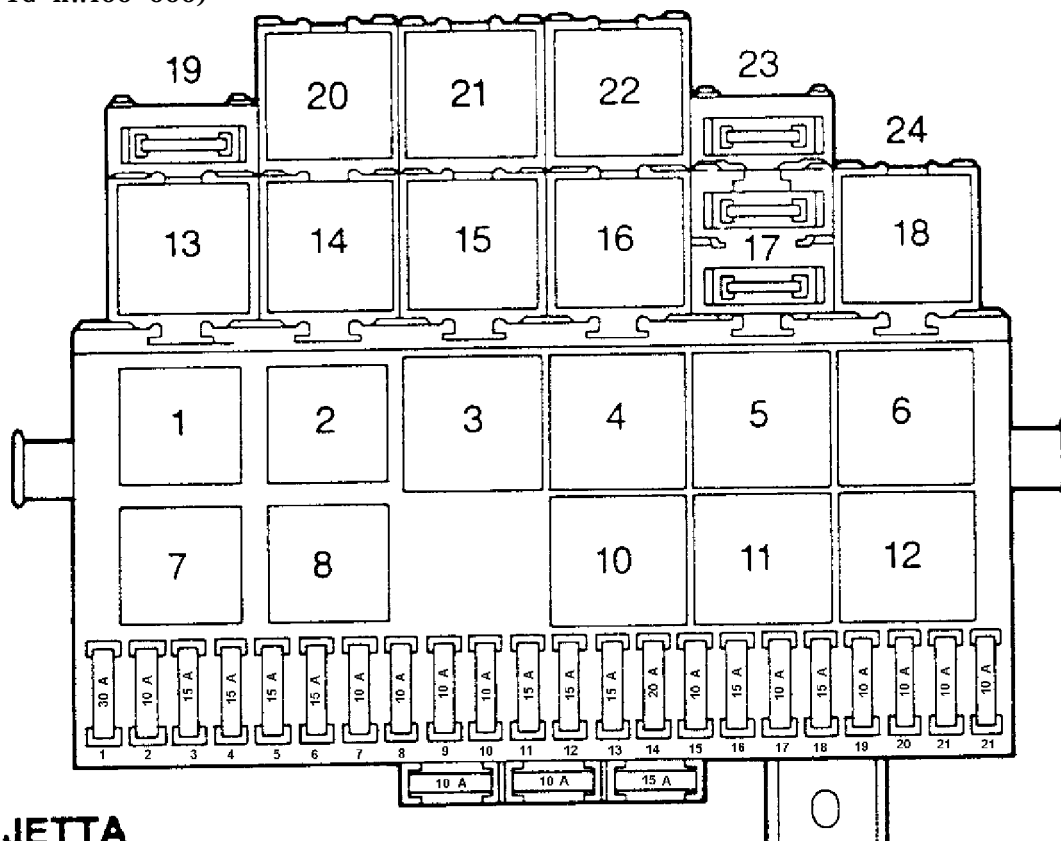
Monday, August 23, 1999 11:48PM

Digifant Control Relay

Part of fuel pump relay.

Fuel Pump Relay

(Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

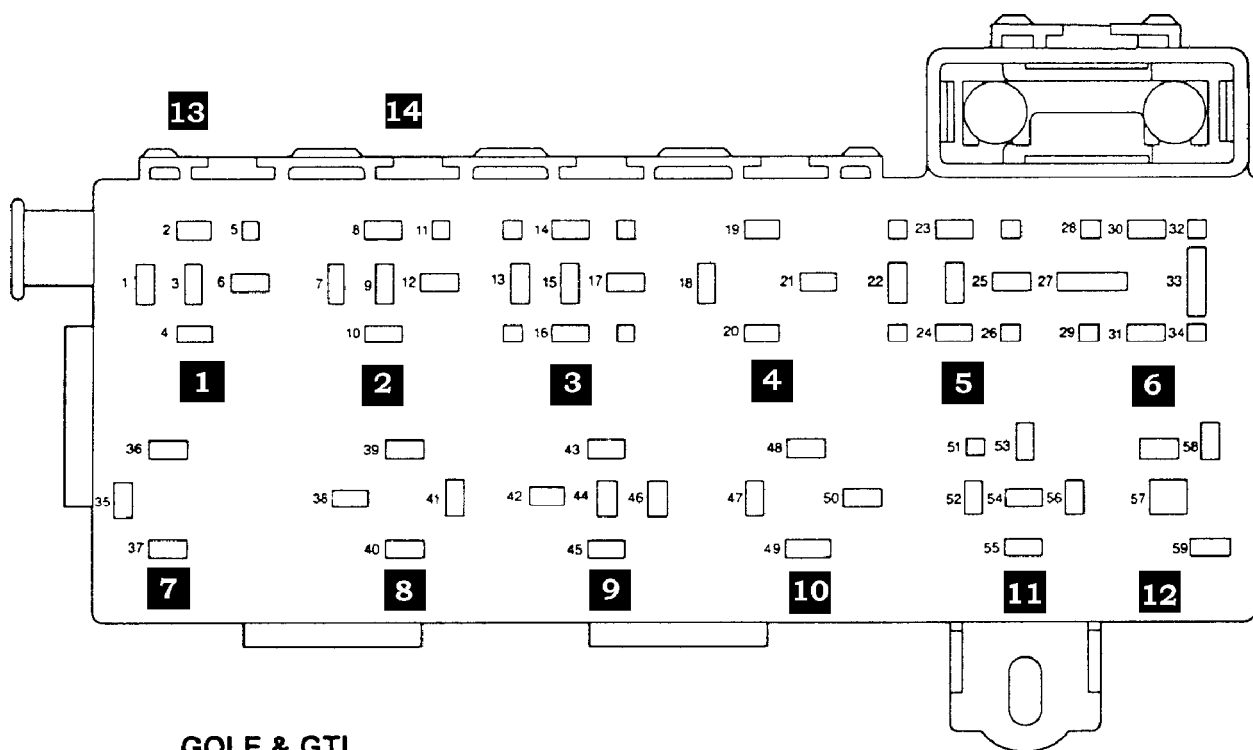
Article Text (p. 8)

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GOLF & GTI

- | | |
|--------------------------------|----------------------------------------------|
| 1. Intermittent Wiper Relay | 8. Load Reduction Circuit Relay |
| 2. ECU Upshift Relay | 9. Idle Stabilizer Relay |
| 3. Horn Relay | 10. A/C High Blower Relay |
| 4. Low Speed Cooling Fan Relay | 11. Seat Belt Interlock Relay |
| 5. Not Used | 12. Seat Belt Interlock Relay |
| 6. Fuel Pump Relay | 13. O ₂ Sensor System Power Relay |
| 7. Turn Signal/Hazard Unit | 14. Rear Wiper/Washer Relay |
- 50B15587**

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

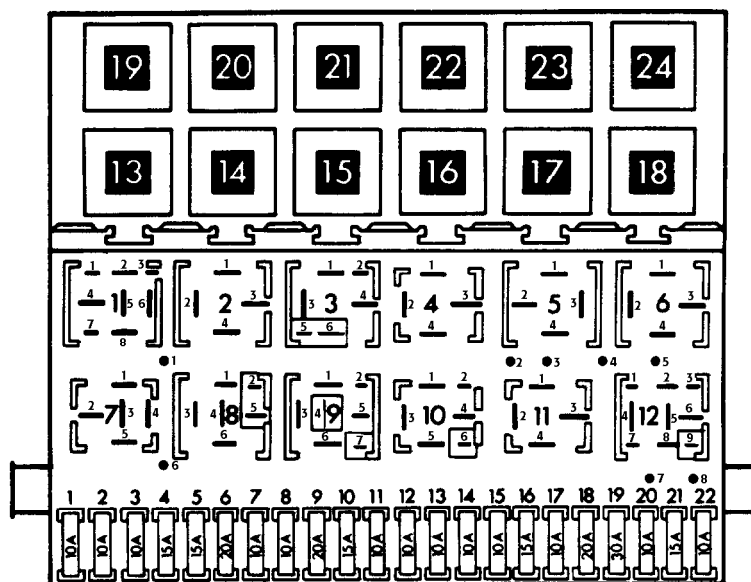
Article Text (p. 9)

1989 Volkswagen Golf

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Monday, August 23, 1999 11:48PM



Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Fuel Pump Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 10)

1989 Volkswagen Golf

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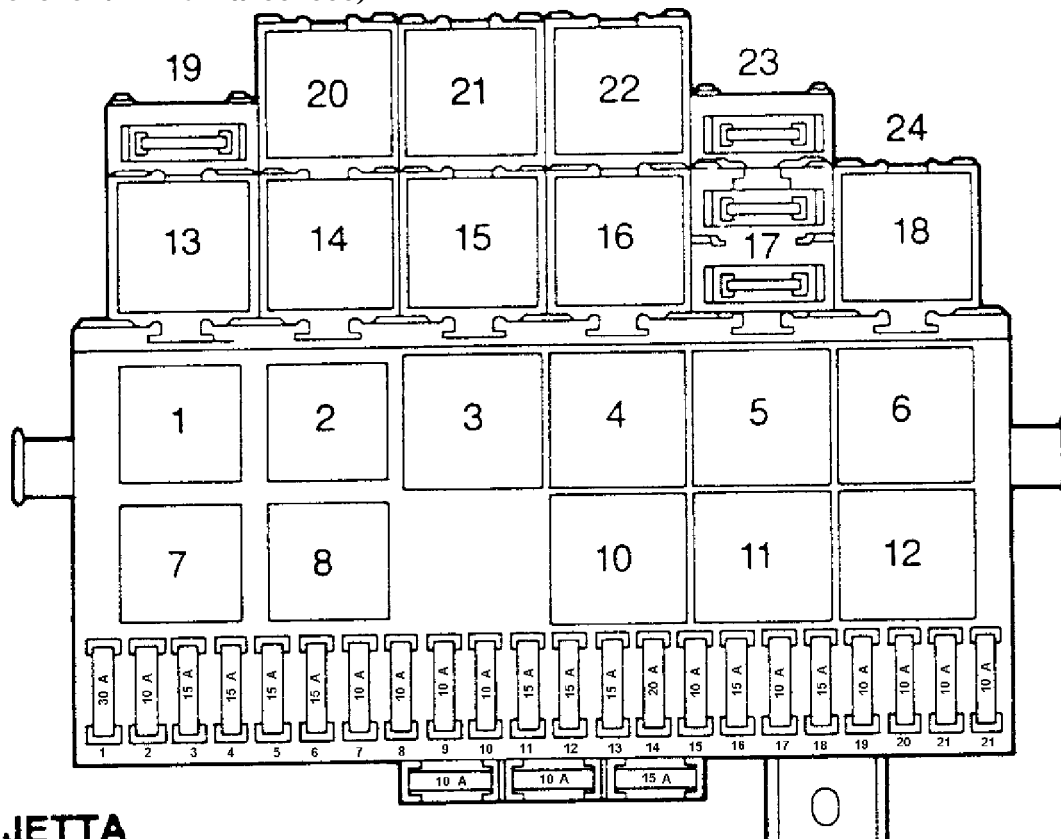
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High Speed Cooling Fan Relay

Attached to upper left corner
of fan shroud.

Horn Relay (Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

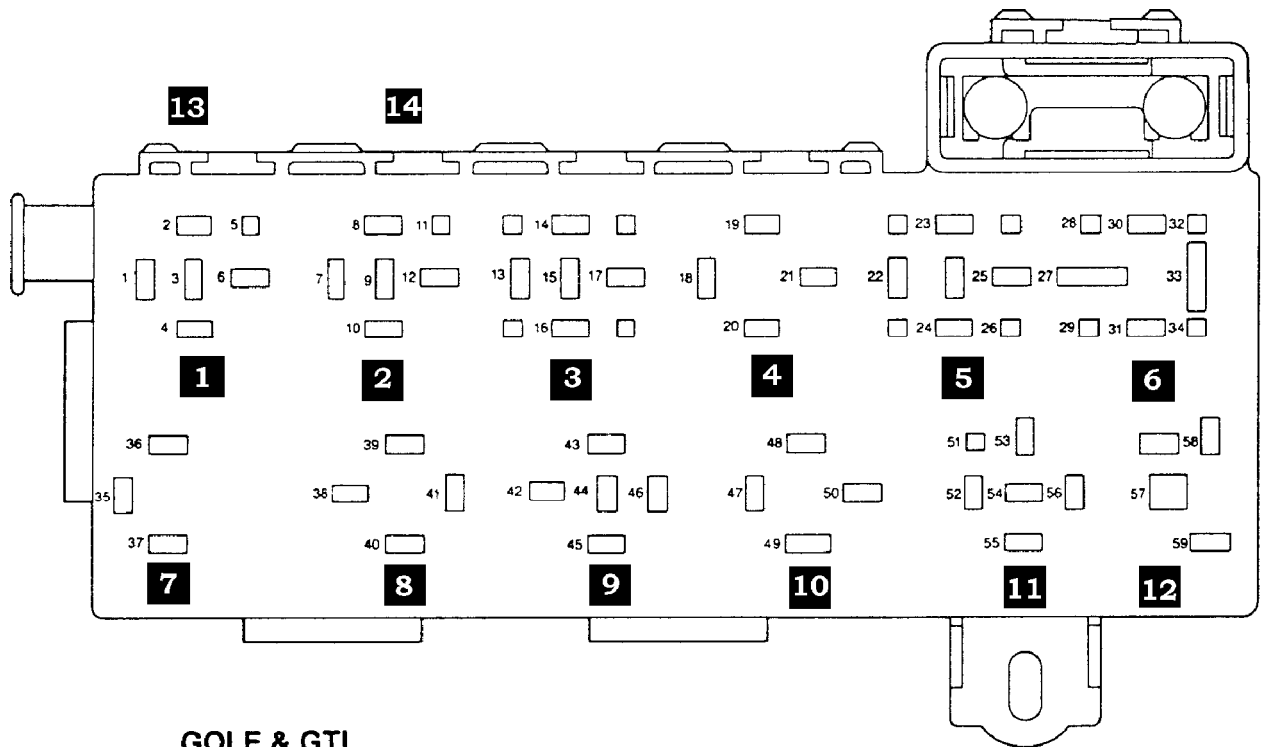
Article Text (p. 11)

1989 Volkswagen Golf

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GOLF & GTI

- | | |
|--------------------------------|----------------------------------------------|
| 1. Intermittent Wiper Relay | 8. Load Reduction Circuit Relay |
| 2. ECU Upshift Relay | 9. Idle Stabilizer Relay |
| 3. Horn Relay | 10. A/C High Blower Relay |
| 4. Low Speed Cooling Fan Relay | 11. Seat Belt Interlock Relay |
| 5. Not Used | 12. Seat Belt Interlock Relay |
| 6. Fuel Pump Relay | 13. O ₂ Sensor System Power Relay |
| 7. Turn Signal/Hazard Unit | 14. Rear Wiper/Washer Relay |

50B15587

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

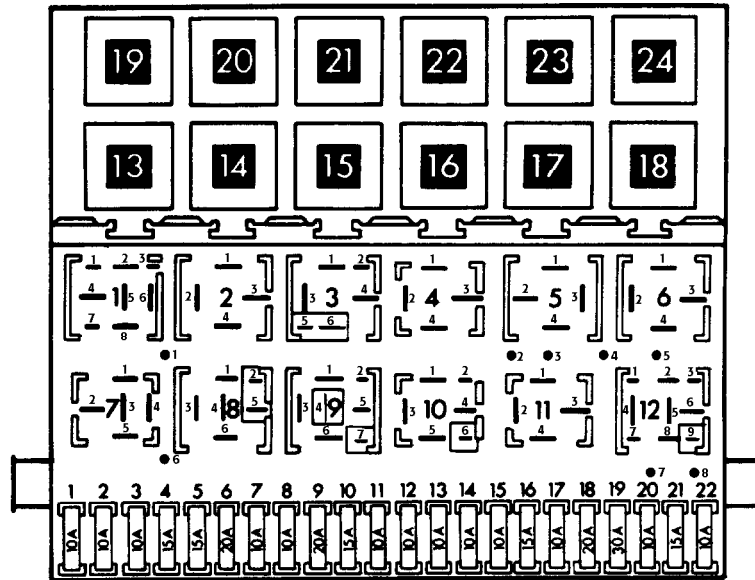
Article Text (p. 12)

1989 Volkswagen Golf

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Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Horn Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 13)

1989 Volkswagen Golf

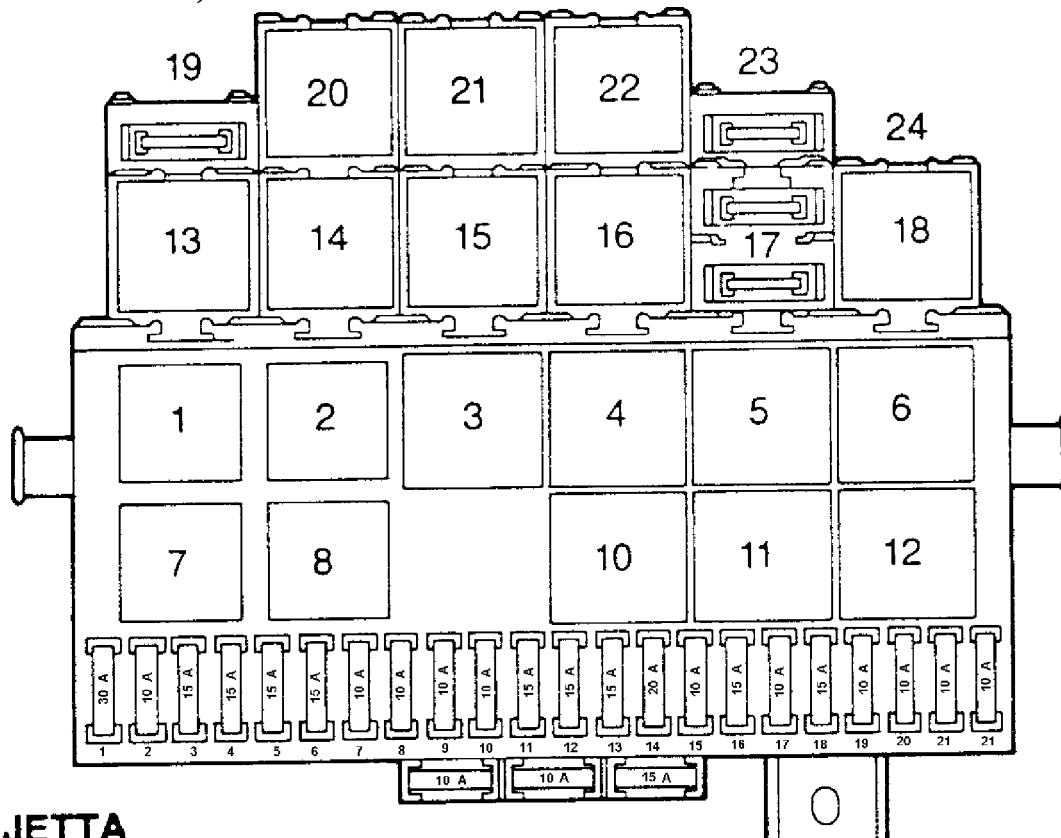
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Idle Stabilizer Relay

(Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

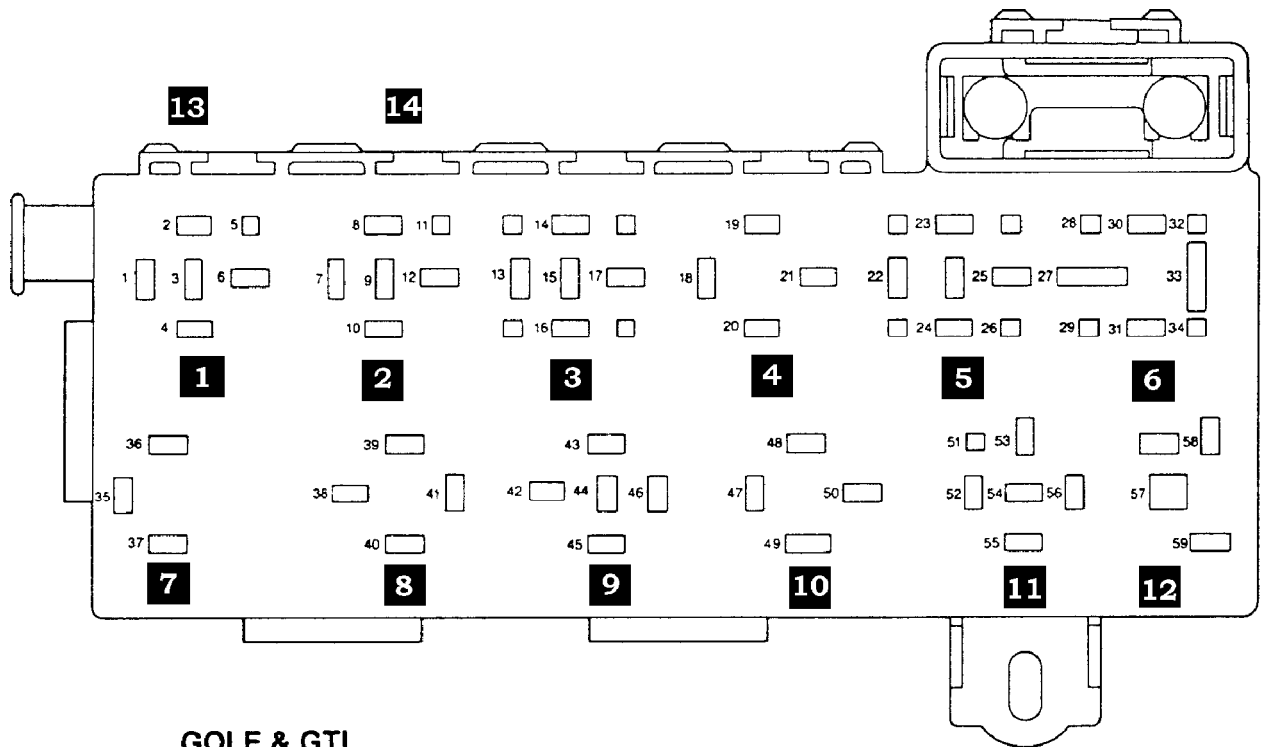
Article Text (p. 14)

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GOLF & GTI

1. Intermittent Wiper Relay
2. ECU Upshift Relay
3. Horn Relay
4. Low Speed Cooling Fan Relay
5. Not Used
6. Fuel Pump Relay
7. Turn Signal/Hazard Unit

8. Load Reduction Circuit Relay
9. Idle Stabilizer Relay
10. A/C High Blower Relay
11. Seat Belt Interlock Relay
12. Seat Belt Interlock Relay
13. O₂ Sensor System Power Relay
14. Rear Wiper/Washer Relay

50B15587

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

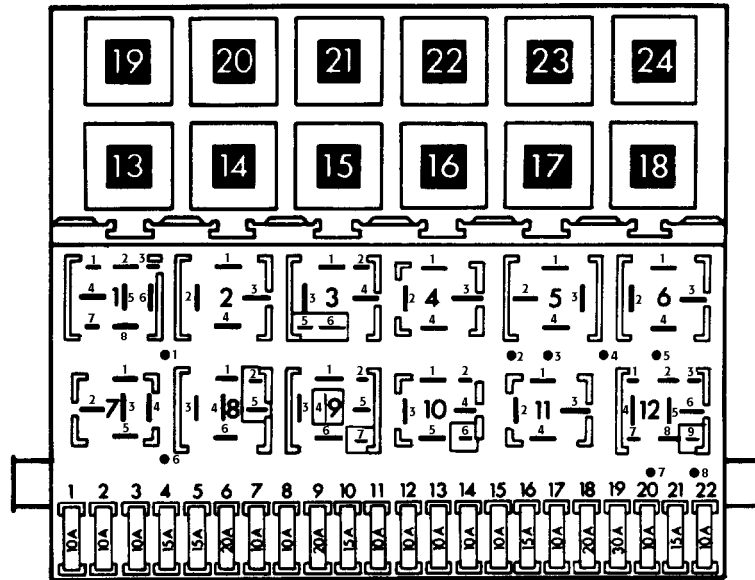
Article Text (p. 15)

1989 Volkswagen Golf

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Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

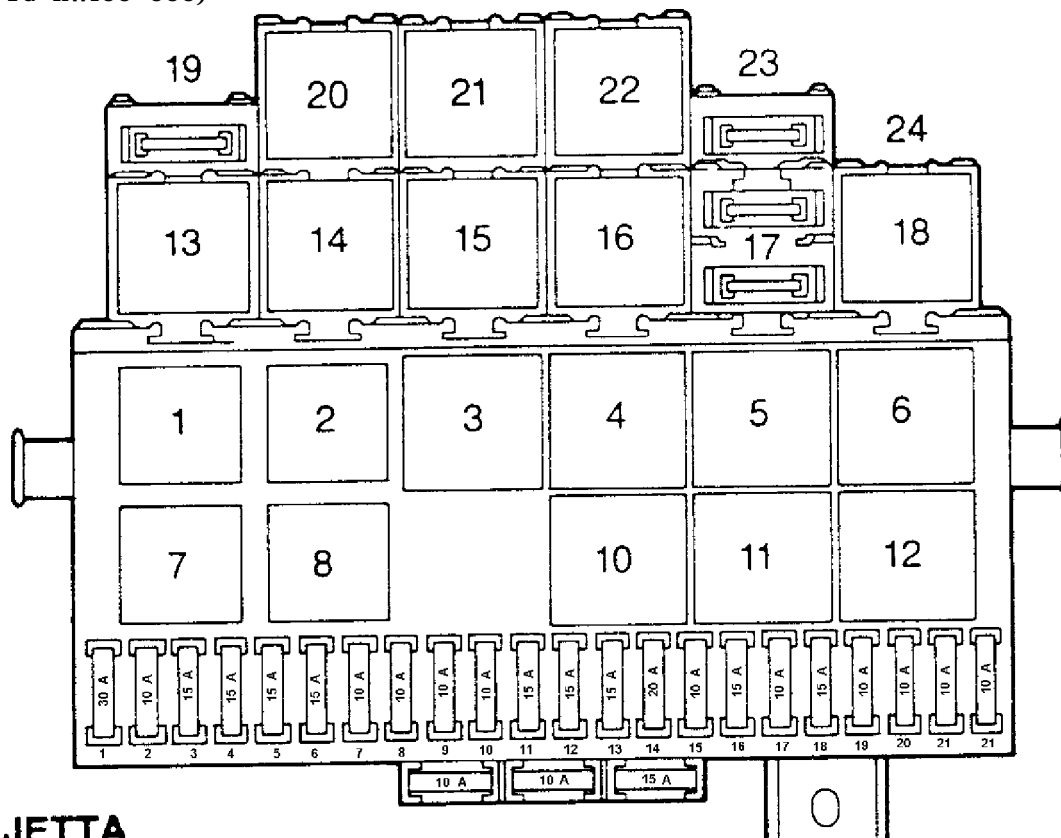
Idle Stabilizer Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

Monday, August 23, 1999 11:48PM

(Before Vin 1G- KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

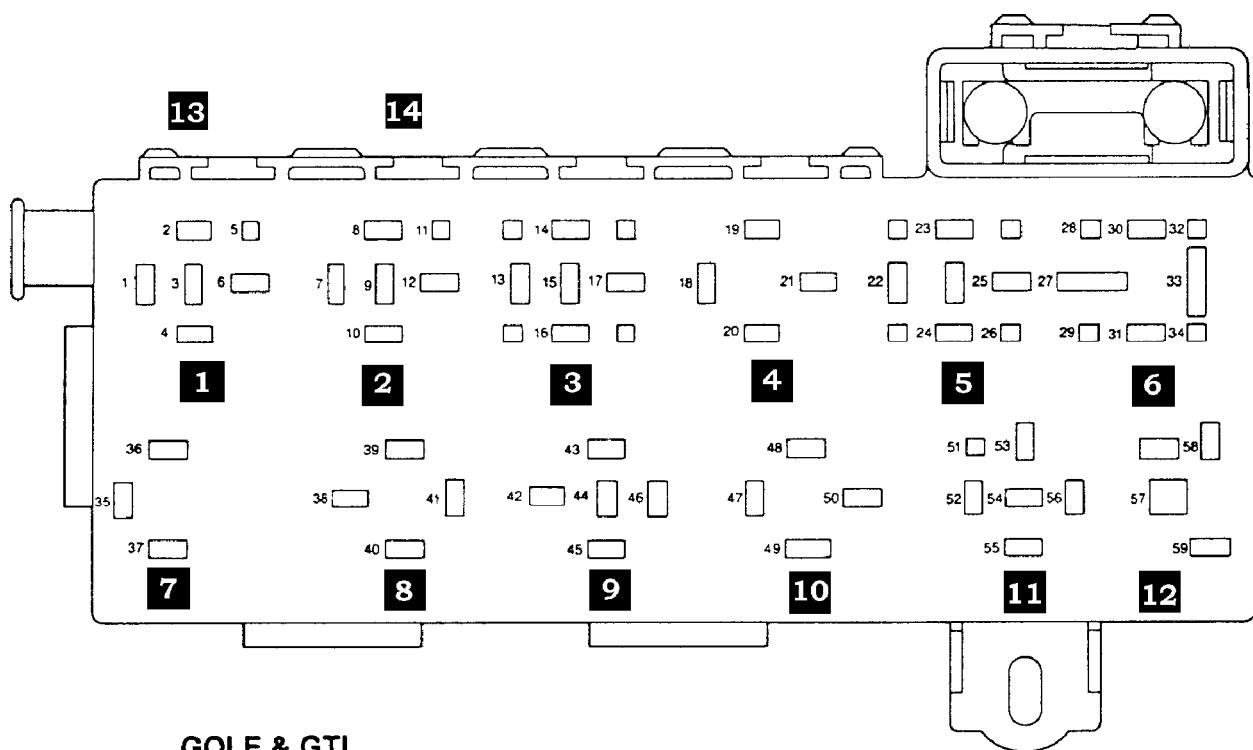
Article Text (p. 17)

1989 Volkswagen Golf

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GOLF & GTI

1. Intermittent Wiper Relay
2. ECU Upshift Relay
3. Horn Relay
4. Low Speed Cooling Fan Relay
5. Not Used
6. Fuel Pump Relay
7. Turn Signal/Hazard Unit

8. Load Reduction Circuit Relay
9. Idle Stabilizer Relay
10. A/C High Blower Relay
11. Seat Belt Interlock Relay
12. Seat Belt Interlock Relay
13. O₂ Sensor System Power Relay
14. Rear Wiper/Washer Relay

50B15587

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

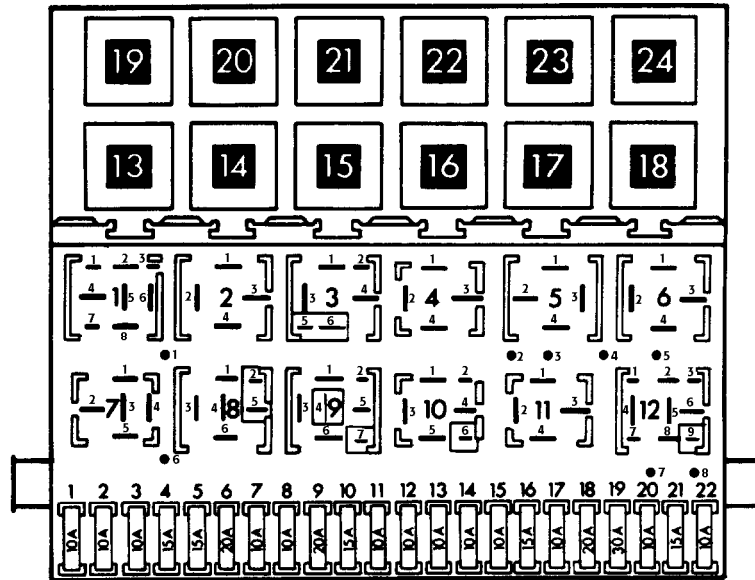
Article Text (p. 18)

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Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Intermittent Wiper Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 19)

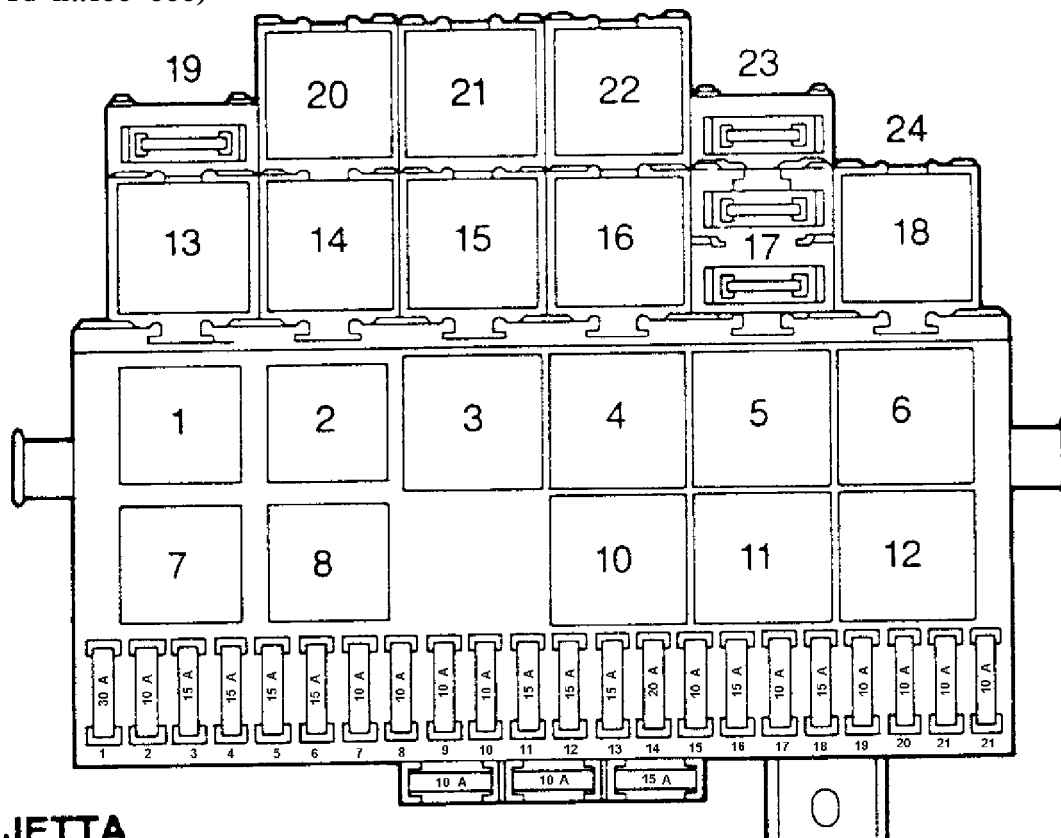
1989 Volkswagen Golf

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Monday, August 23, 1999 11:48PM

Load Reduction Circuit Relay (Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

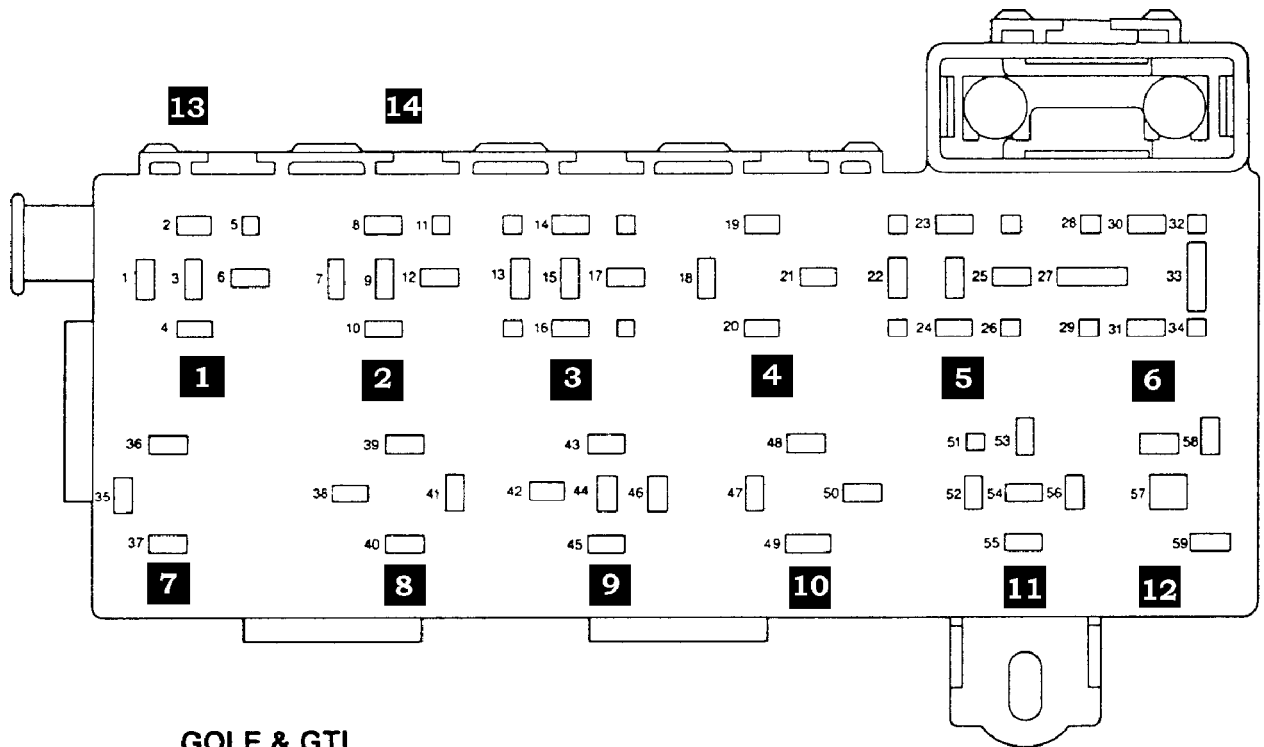
Article Text (p. 20)

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GOLF & GTI

1. Intermittent Wiper Relay
2. ECU Upshift Relay
3. Horn Relay
4. Low Speed Cooling Fan Relay
5. Not Used
6. Fuel Pump Relay
7. Turn Signal/Hazard Unit

8. Load Reduction Circuit Relay
9. Idle Stabilizer Relay
10. A/C High Blower Relay
11. Seat Belt Interlock Relay
12. Seat Belt Interlock Relay
13. O₂ Sensor System Power Relay
14. Rear Wiper/Washer Relay

50B15587

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

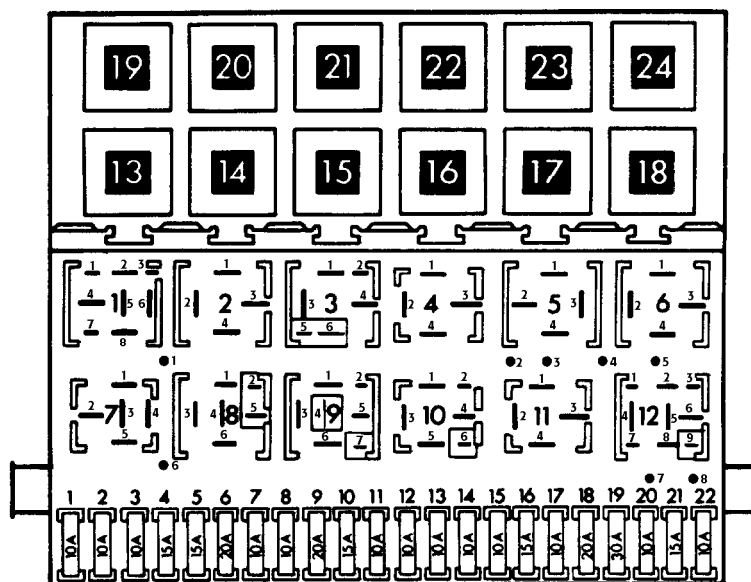
Article Text (p. 21)

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Monday, August 23, 1999 11:48PM



Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Load Reduction Circuit Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 22)

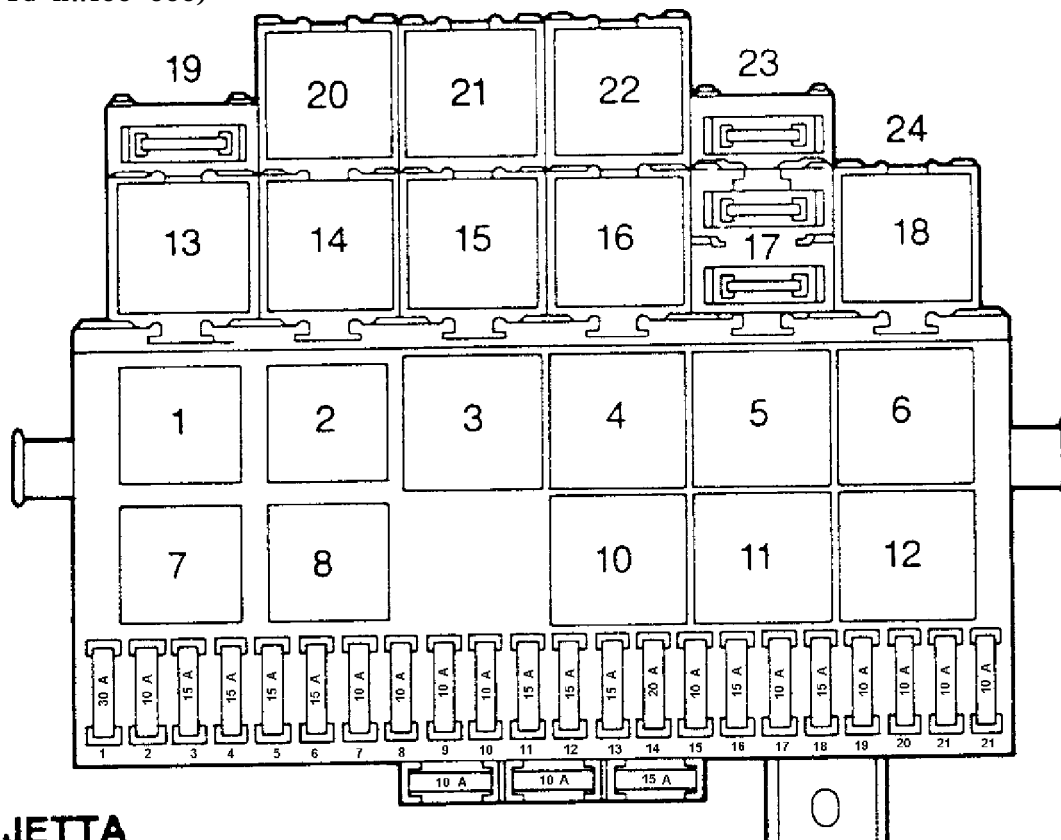
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Monday, August 23, 1999 11:48PM

Low Speed Cooling Fan Relay
(Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

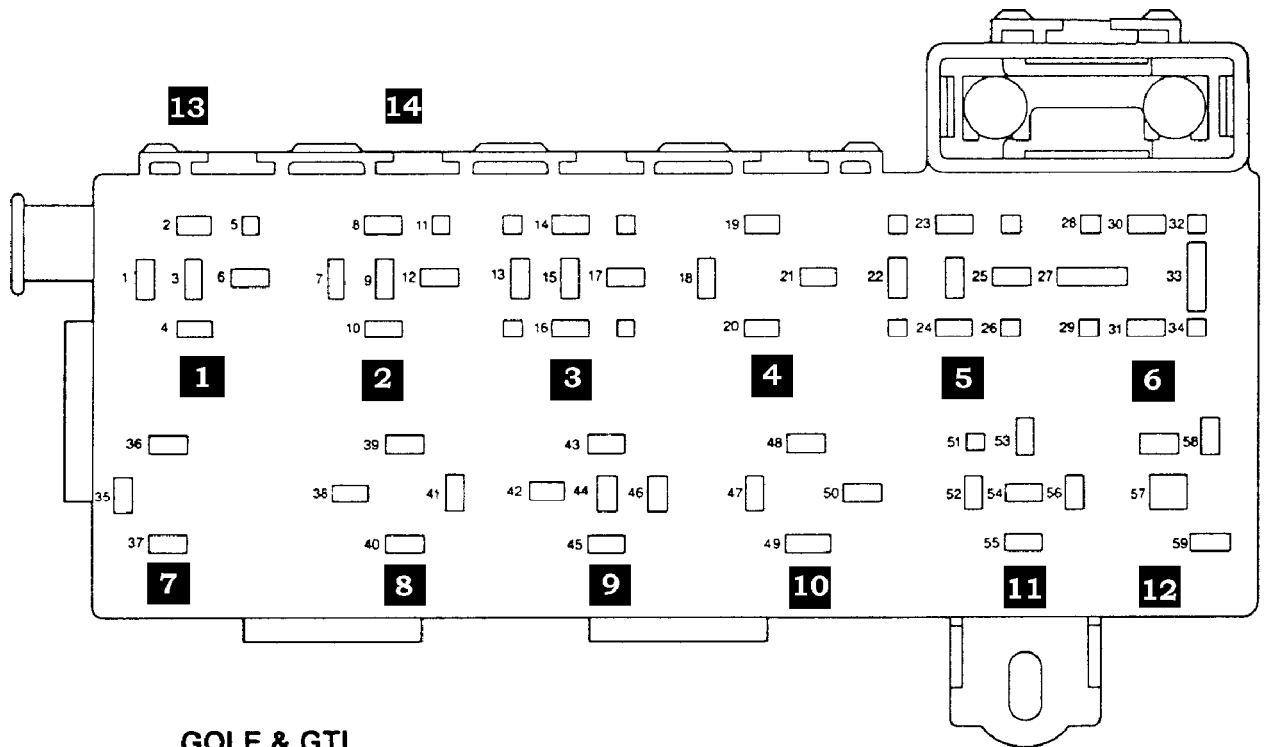
Article Text (p. 23)

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GOLF & GTI

1. Intermittent Wiper Relay
2. ECU Upshift Relay
3. Horn Relay
4. Low Speed Cooling Fan Relay
5. Not Used
6. Fuel Pump Relay
7. Turn Signal/Hazard Unit

8. Load Reduction Circuit Relay
9. Idle Stabilizer Relay
10. A/C High Blower Relay
11. Seat Belt Interlock Relay
12. Seat Belt Interlock Relay
13. O₂ Sensor System Power Relay
14. Rear Wiper/Washer Relay

50B15587

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

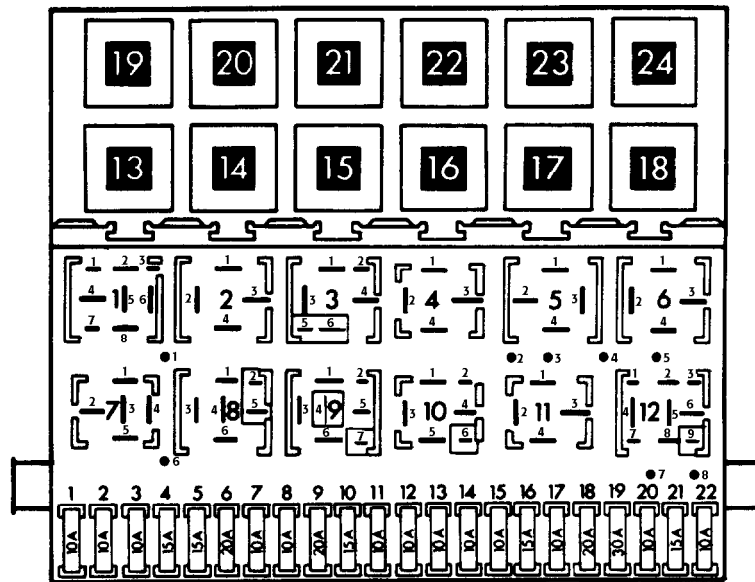
Article Text (p. 24)

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Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Low Speed Cooling Fan Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 25)

1989 Volkswagen Golf

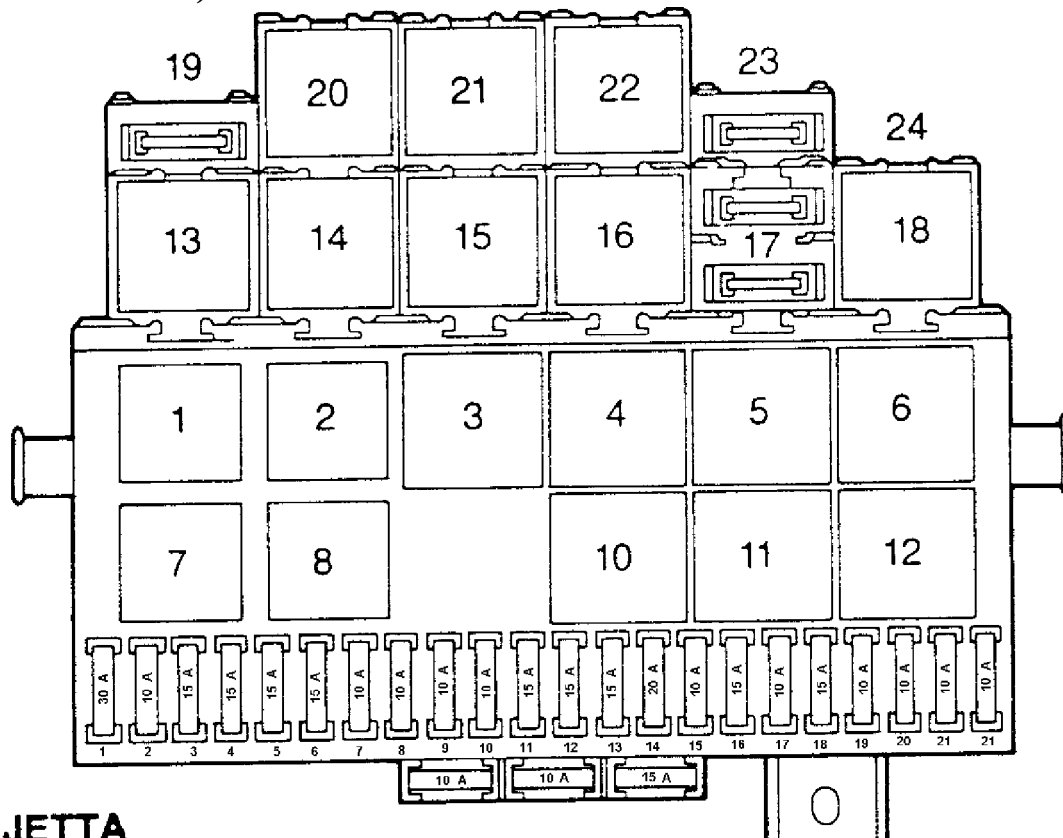
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Passive Restraint Relay

(Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

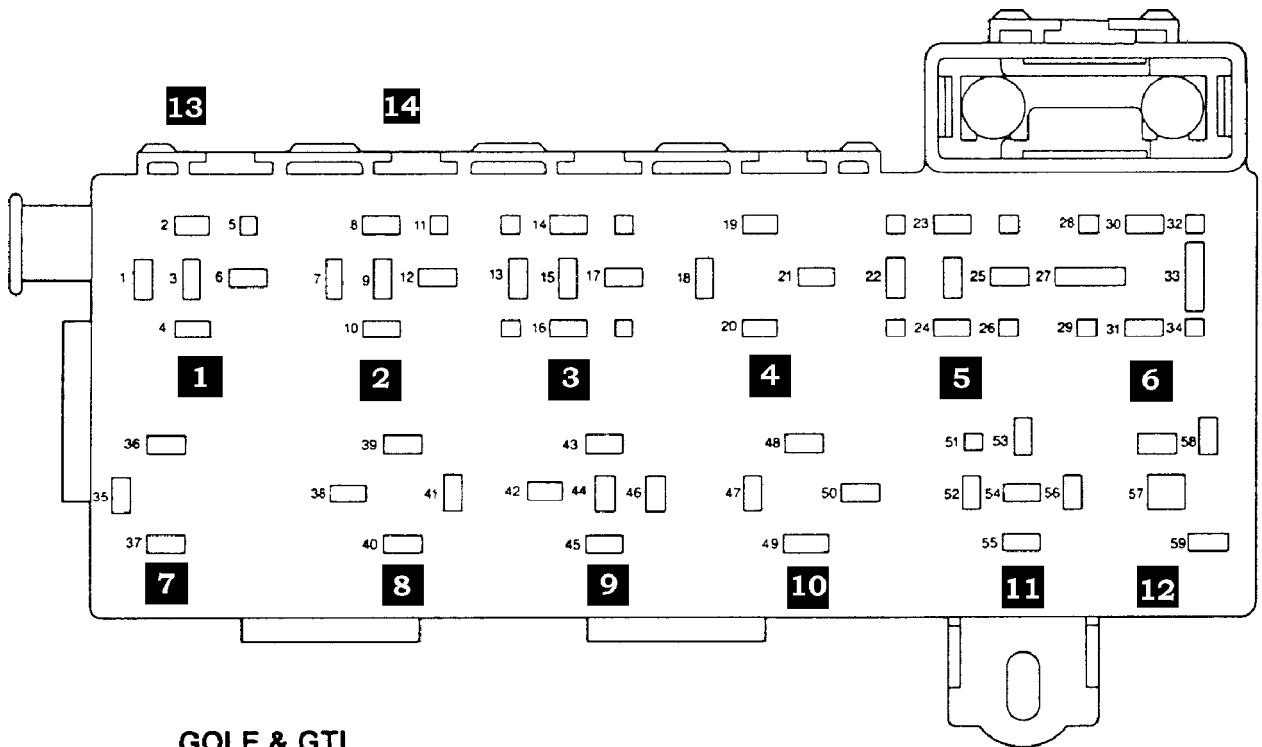
Article Text (p. 26)

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GOLF & GTI

- | | |
|--------------------------------|----------------------------------------------|
| 1. Intermittent Wiper Relay | 8. Load Reduction Circuit Relay |
| 2. ECU Upshift Relay | 9. Idle Stabilizer Relay |
| 3. Horn Relay | 10. A/C High Blower Relay |
| 4. Low Speed Cooling Fan Relay | 11. Seat Belt Interlock Relay |
| 5. Not Used | 12. Seat Belt Interlock Relay |
| 6. Fuel Pump Relay | 13. O ₂ Sensor System Power Relay |
| 7. Turn Signal/Hazard Unit | 14. Rear Wiper/Washer Relay |

50B15587

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

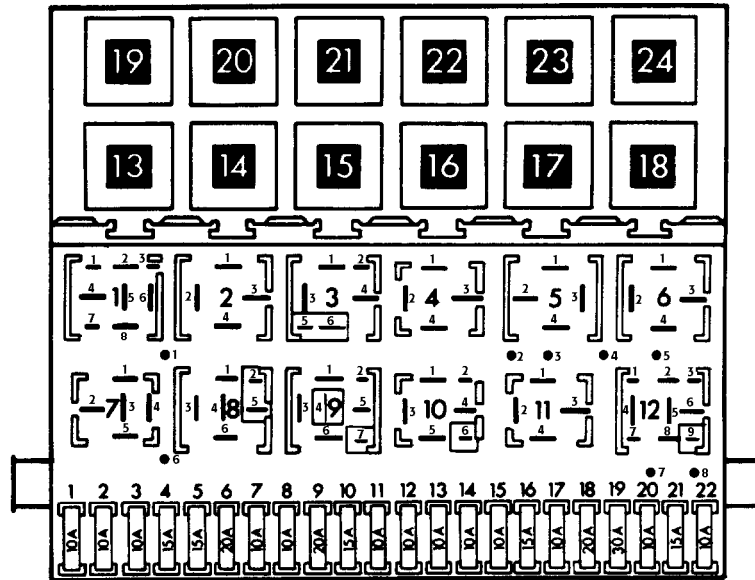
Article Text (p. 27)

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Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Passive Restraint Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 28)

1989 Volkswagen Golf

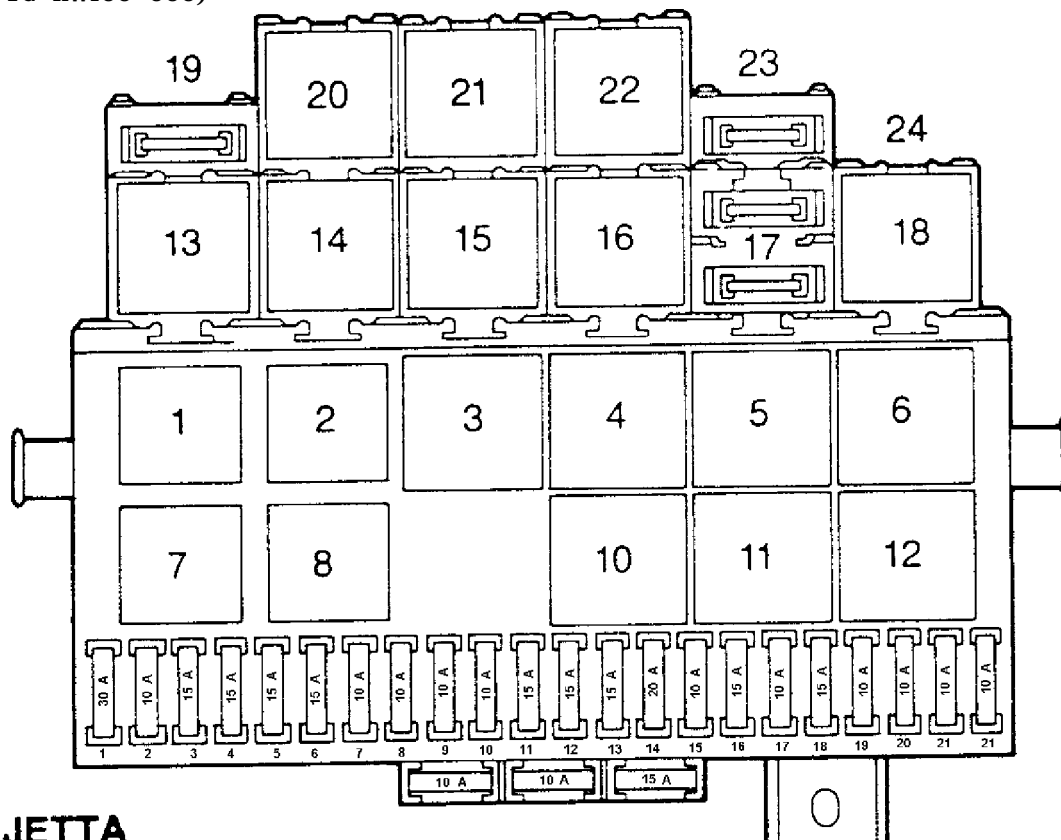
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Monday, August 23, 1999 11:48PM

Power Supply Relay

(Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

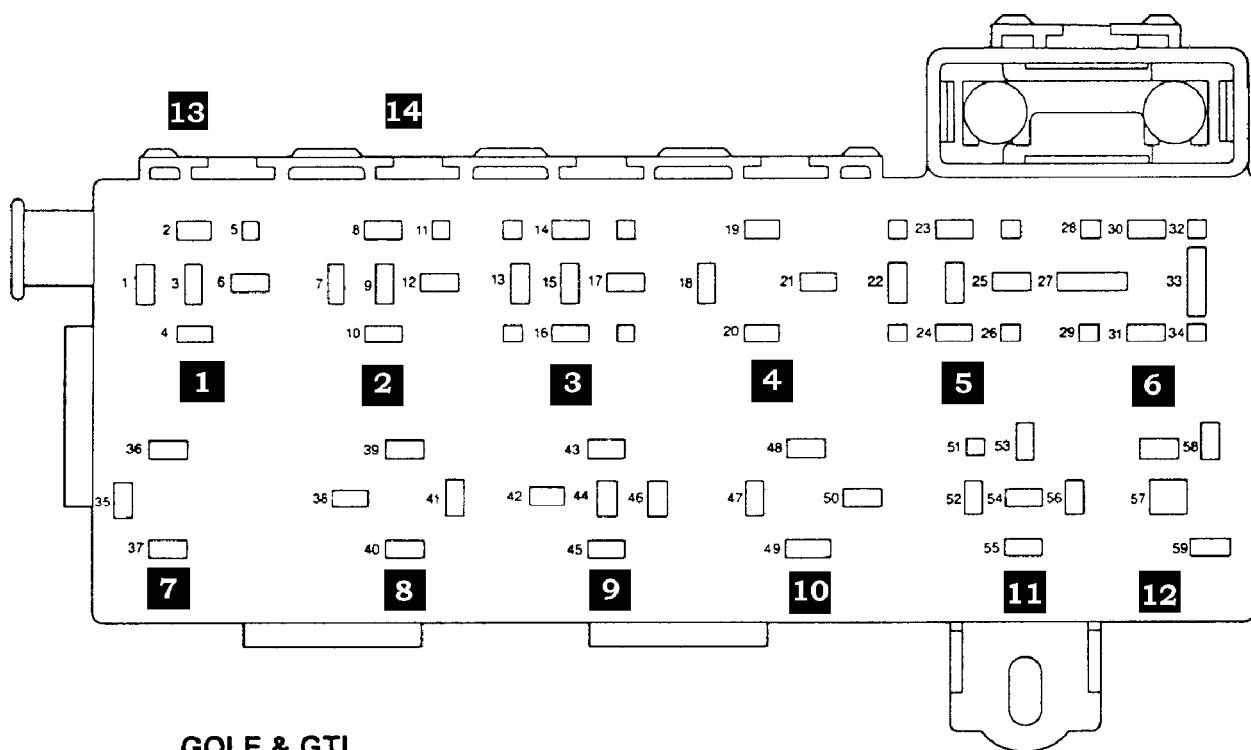
Article Text (p. 29)

1989 Volkswagen Golf

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GOLF & GTI

1. Intermittent Wiper Relay
2. ECU Upshift Relay
3. Horn Relay
4. Low Speed Cooling Fan Relay
5. Not Used
6. Fuel Pump Relay
7. Turn Signal/Hazard Unit

8. Load Reduction Circuit Relay
9. Idle Stabilizer Relay
10. A/C High Blower Relay
11. Seat Belt Interlock Relay
12. Seat Belt Interlock Relay
13. O₂ Sensor System Power Relay
14. Rear Wiper/Washer Relay

50B15587

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

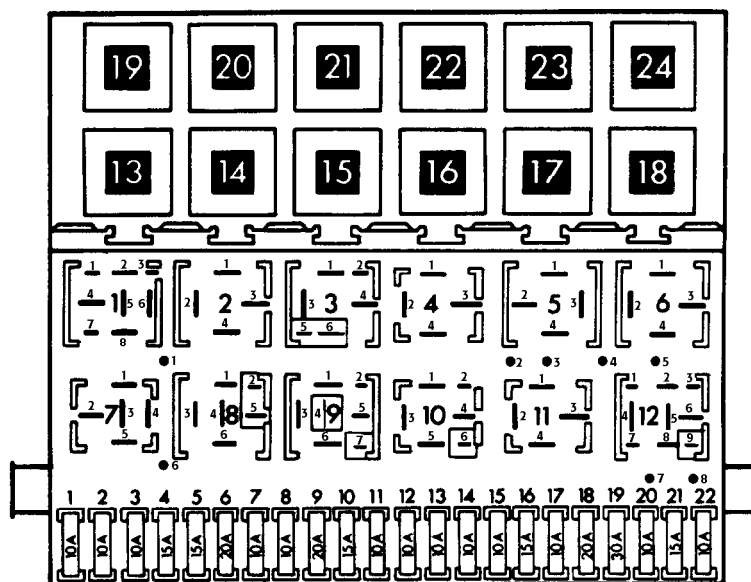
Article Text (p. 30)

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Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Power Supply Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 31)

1989 Volkswagen Golf

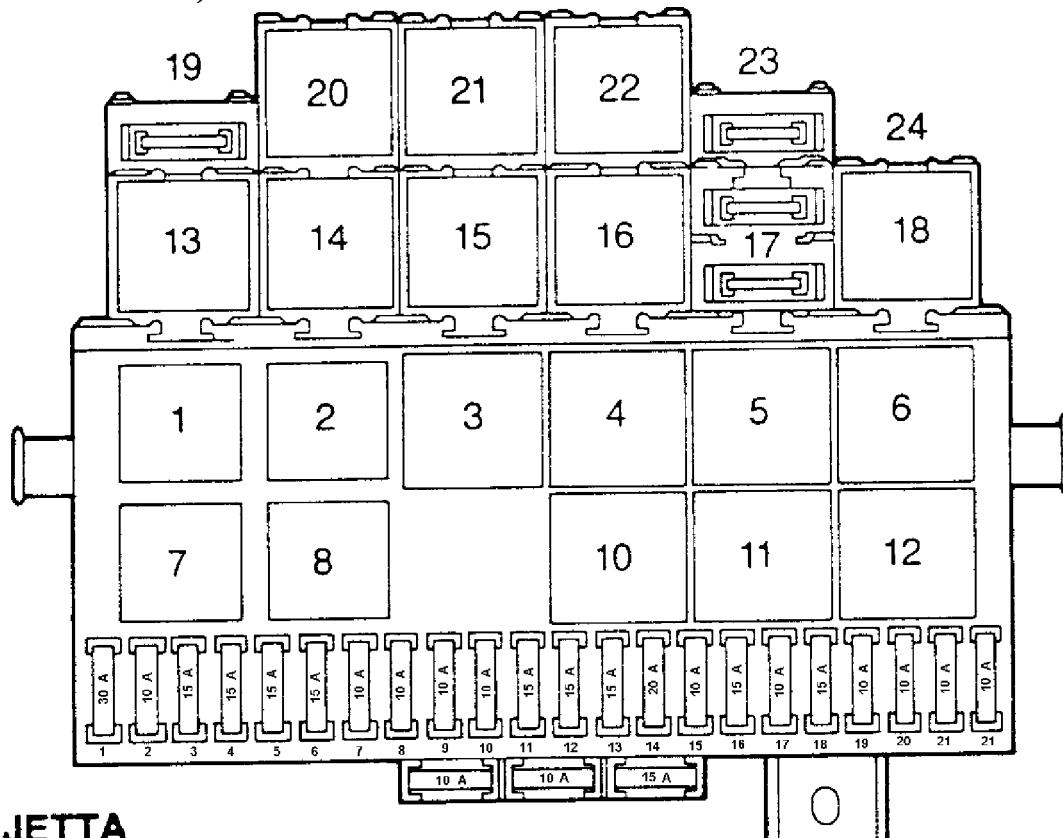
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Monday, August 23, 1999 11:48PM

Power Window Relay

(Before Vin 1G-KW400 000)



JETTA

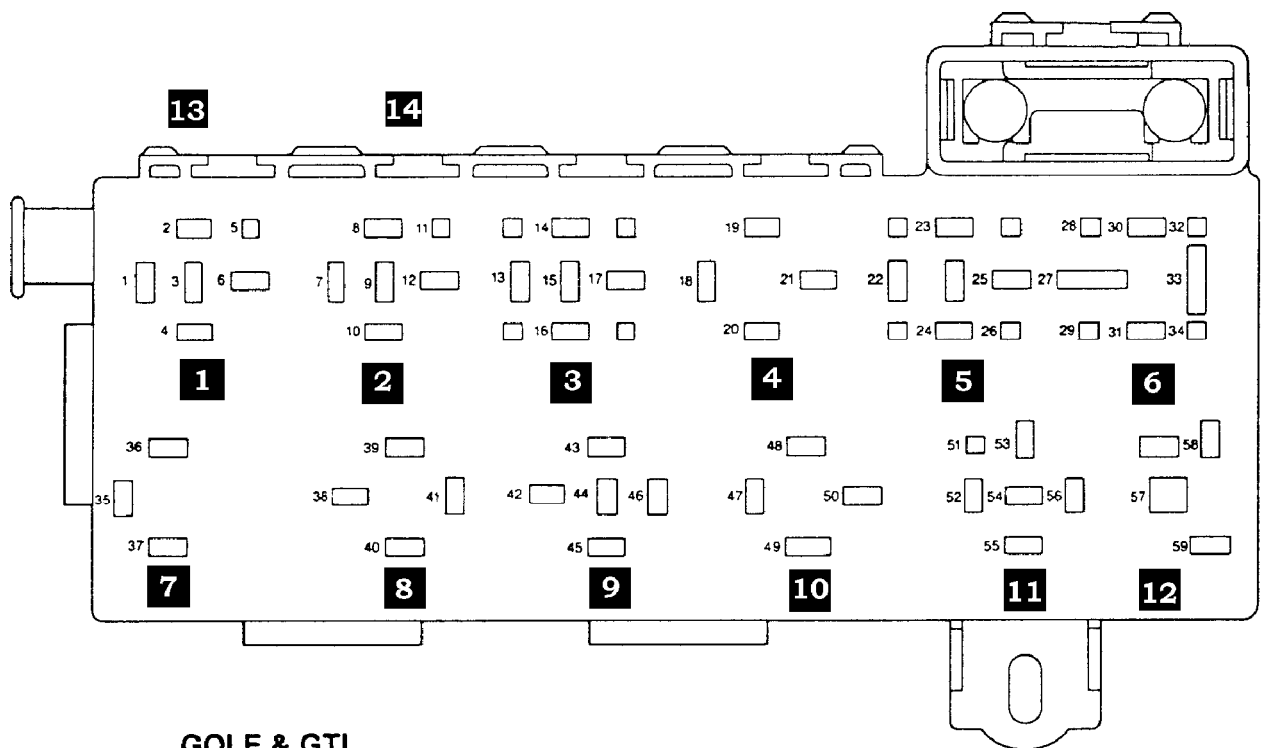
- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

Monday, August 23, 1999 11:48PM



GOLF & GTI

- | | |
|--------------------------------|----------------------------------------------|
| 1. Intermittent Wiper Relay | 8. Load Reduction Circuit Relay |
| 2. ECU Upshift Relay | 9. Idle Stabilizer Relay |
| 3. Horn Relay | 10. A/C High Blower Relay |
| 4. Low Speed Cooling Fan Relay | 11. Seat Belt Interlock Relay |
| 5. Not Used | 12. Seat Belt Interlock Relay |
| 6. Fuel Pump Relay | 13. O ₂ Sensor System Power Relay |
| 7. Turn Signal/Hazard Unit | 14. Rear Wiper/Washer Relay |
- 50B15587**
- On relay panel.**

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

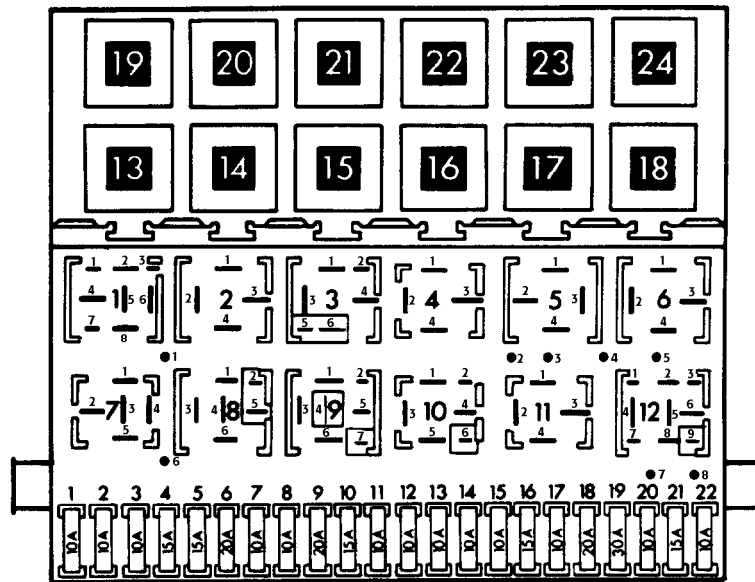
Article Text (p. 33)

1989 Volkswagen Golf

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Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Power Window Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 34)

1989 Volkswagen Golf

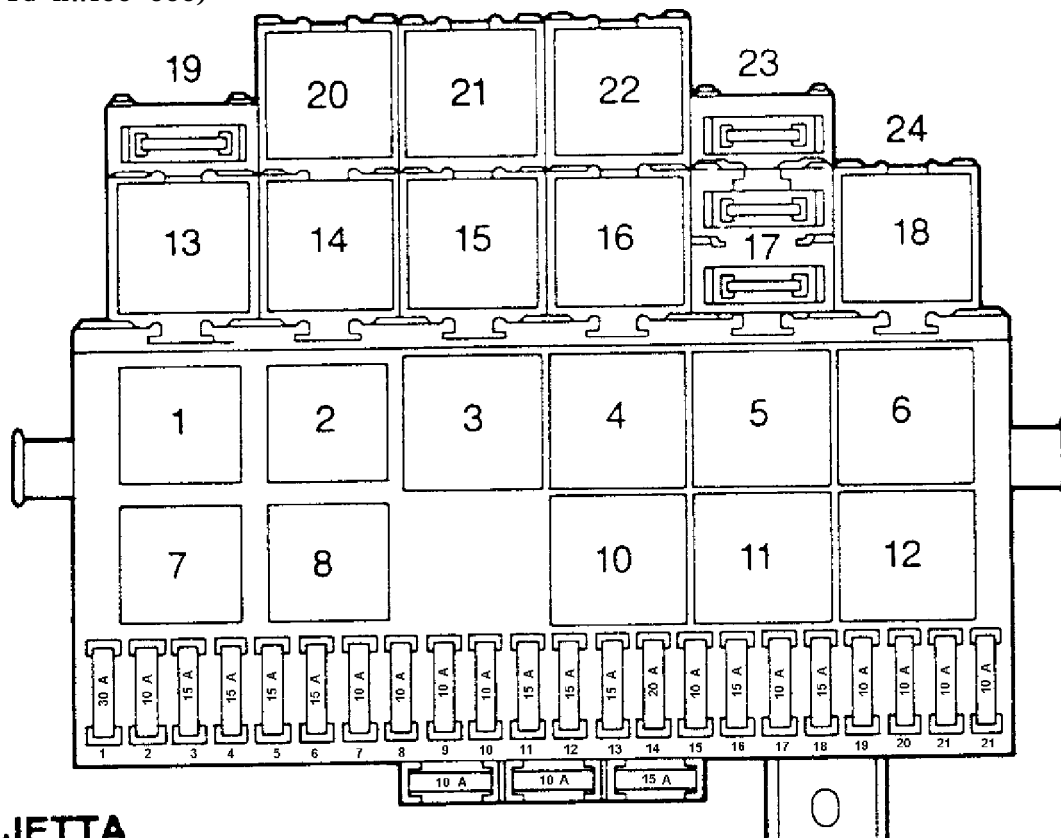
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Pulse Wiper Relay

(Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

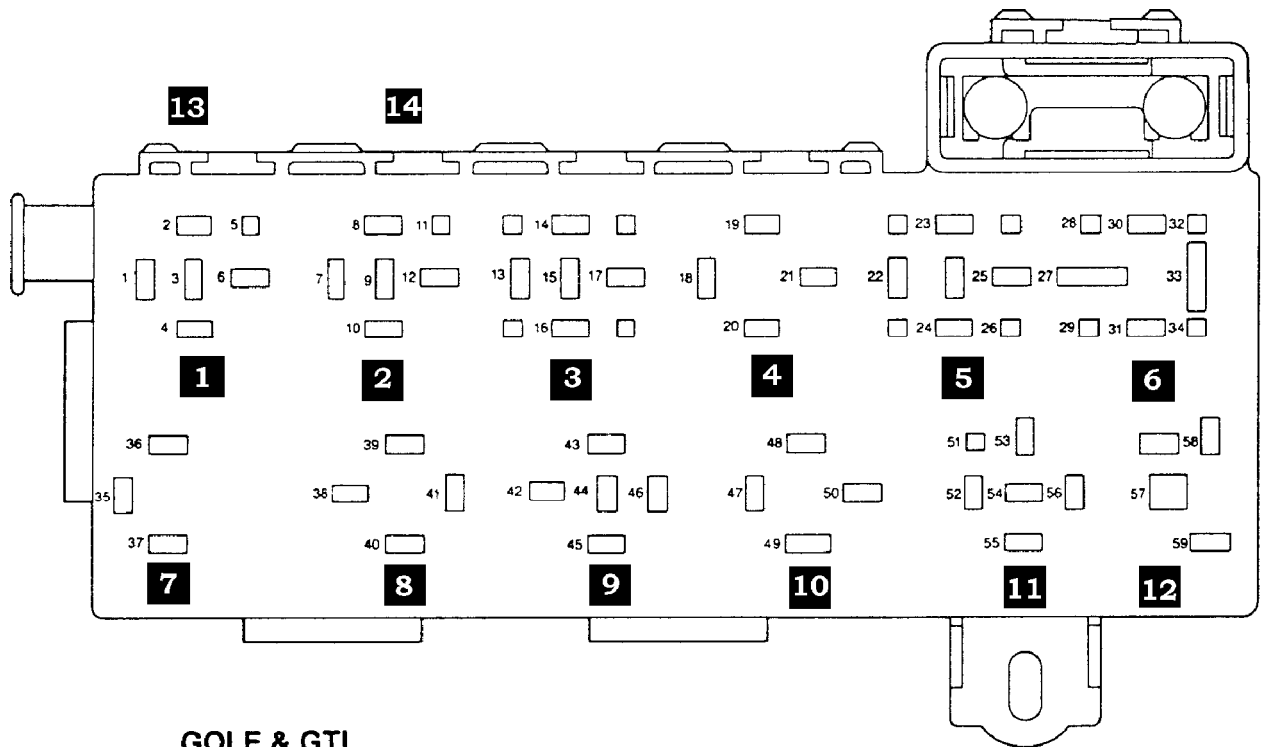
Article Text (p. 35)

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GOLF & GTI

1. Intermittent Wiper Relay
2. ECU Upshift Relay
3. Horn Relay
4. Low Speed Cooling Fan Relay
5. Not Used
6. Fuel Pump Relay
7. Turn Signal/Hazard Unit

8. Load Reduction Circuit Relay
9. Idle Stabilizer Relay
10. A/C High Blower Relay
11. Seat Belt Interlock Relay
12. Seat Belt Interlock Relay
13. O₂ Sensor System Power Relay
14. Rear Wiper/Washer Relay

50B15587

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

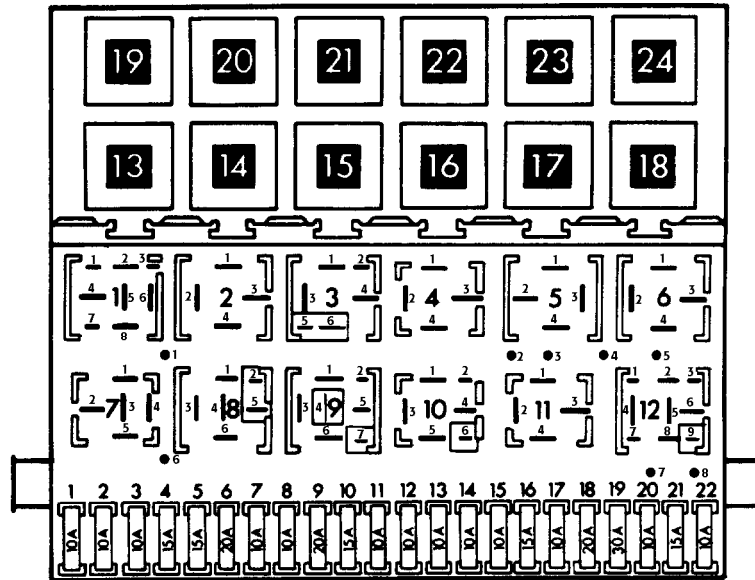
Article Text (p. 36)

1989 Volkswagen Golf

For Volkswagen Technical Site

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Monday, August 23, 1999 11:48PM



Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Pulse Wiper Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 37)

1989 Volkswagen Golf

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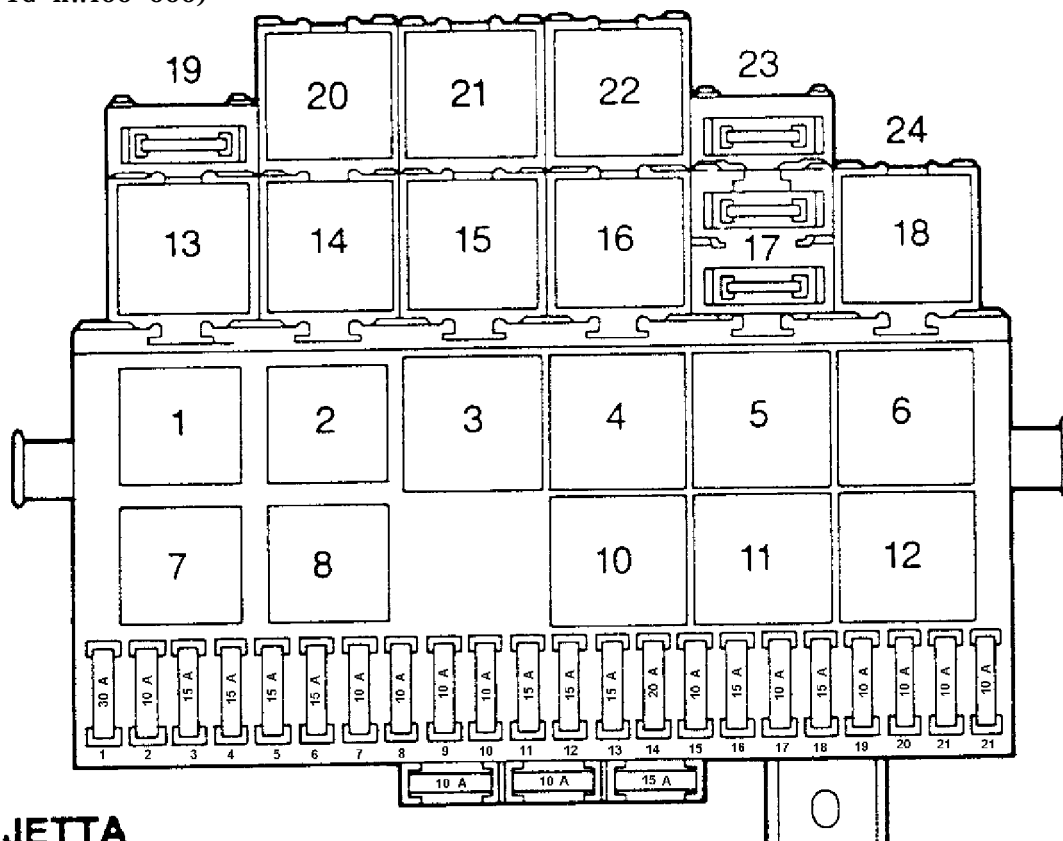
Monday, August 23, 1999 11:48PM

Radiator Cooling Fan After-Run

On relay panel

Rear Wiper/Washer Relay

(Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

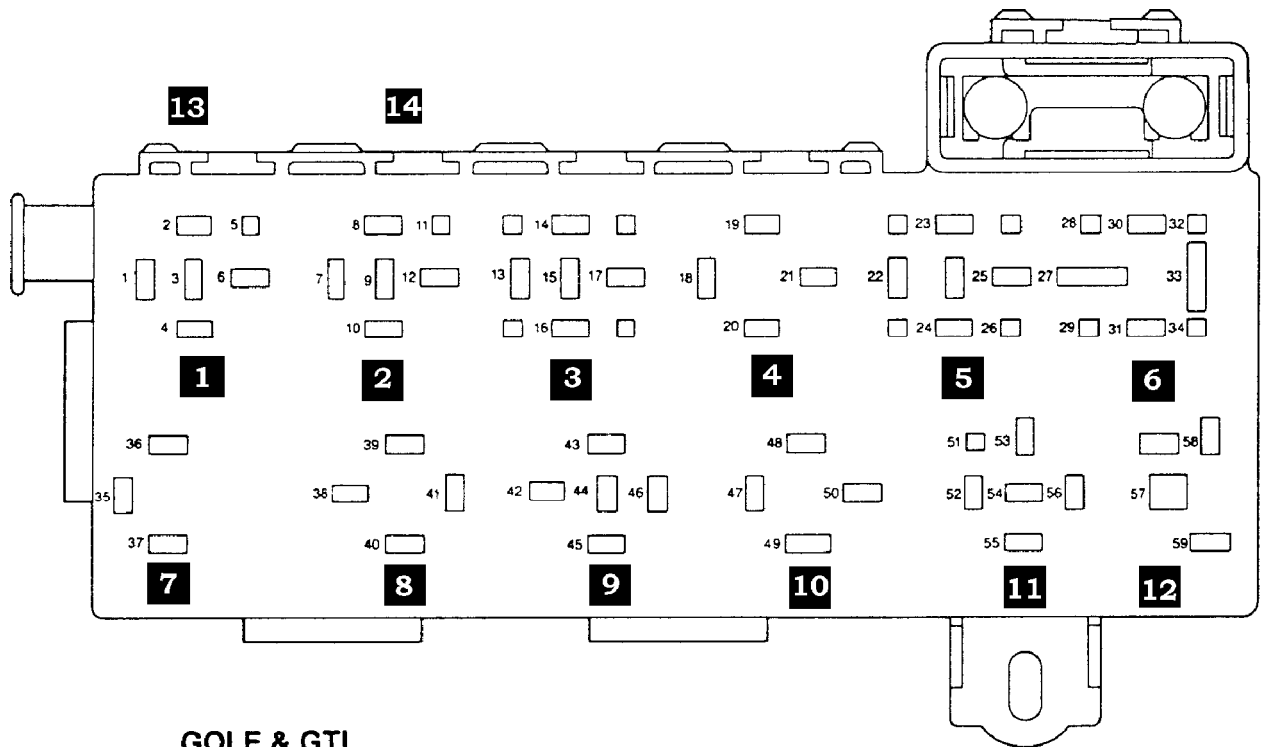
Article Text (p. 38)

1989 Volkswagen Golf

For Volkswagen Technical Site

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Monday, August 23, 1999 11:48PM



GOLF & GTI

- | | |
|--------------------------------|----------------------------------------------|
| 1. Intermittent Wiper Relay | 8. Load Reduction Circuit Relay |
| 2. ECU Upshift Relay | 9. Idle Stabilizer Relay |
| 3. Horn Relay | 10. A/C High Blower Relay |
| 4. Low Speed Cooling Fan Relay | 11. Seat Belt Interlock Relay |
| 5. Not Used | 12. Seat Belt Interlock Relay |
| 6. Fuel Pump Relay | 13. O ₂ Sensor System Power Relay |
| 7. Turn Signal/Hazard Unit | 14. Rear Wiper/Washer Relay |
- 50B15587**

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

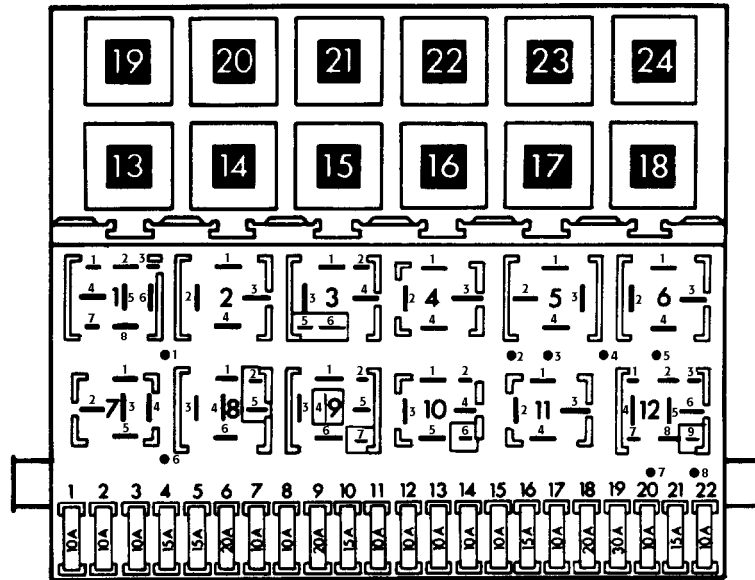
Article Text (p. 39)

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Monday, August 23, 1999 11:48PM



Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Rear Wiper/Washer Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 40)

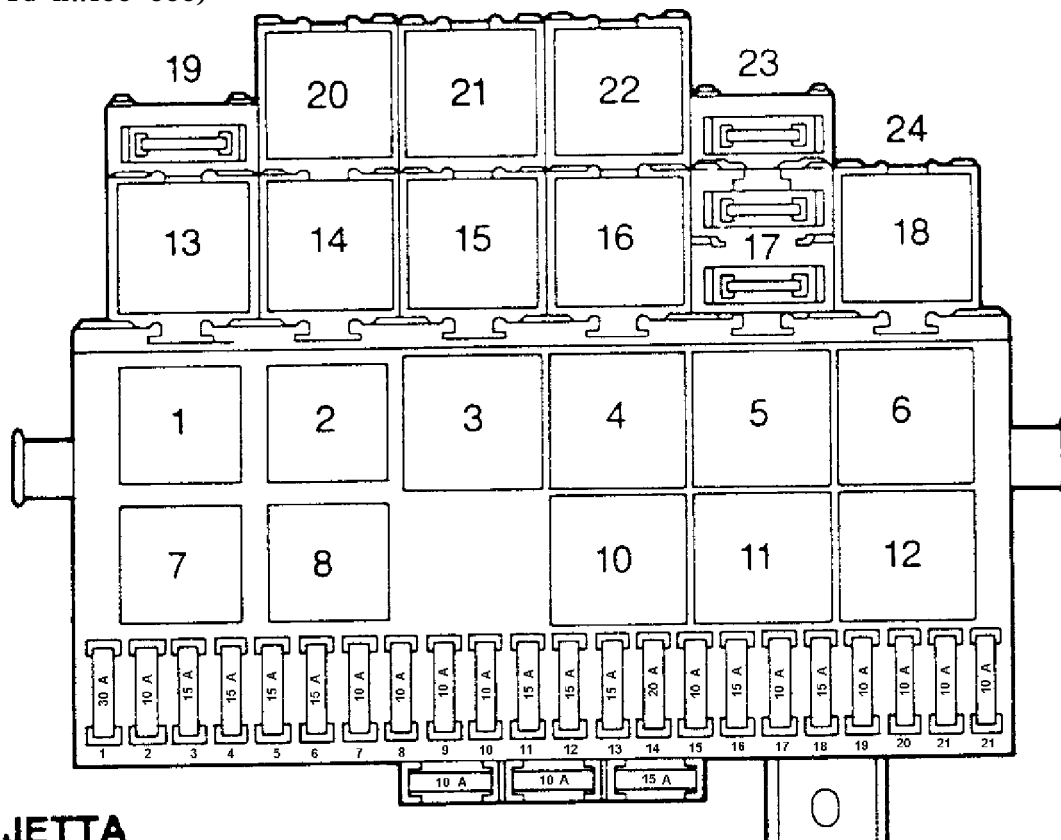
1989 Volkswagen Golf

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Monday, August 23, 1999 11:48PM

Seat Belt Interlock Relay
(Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

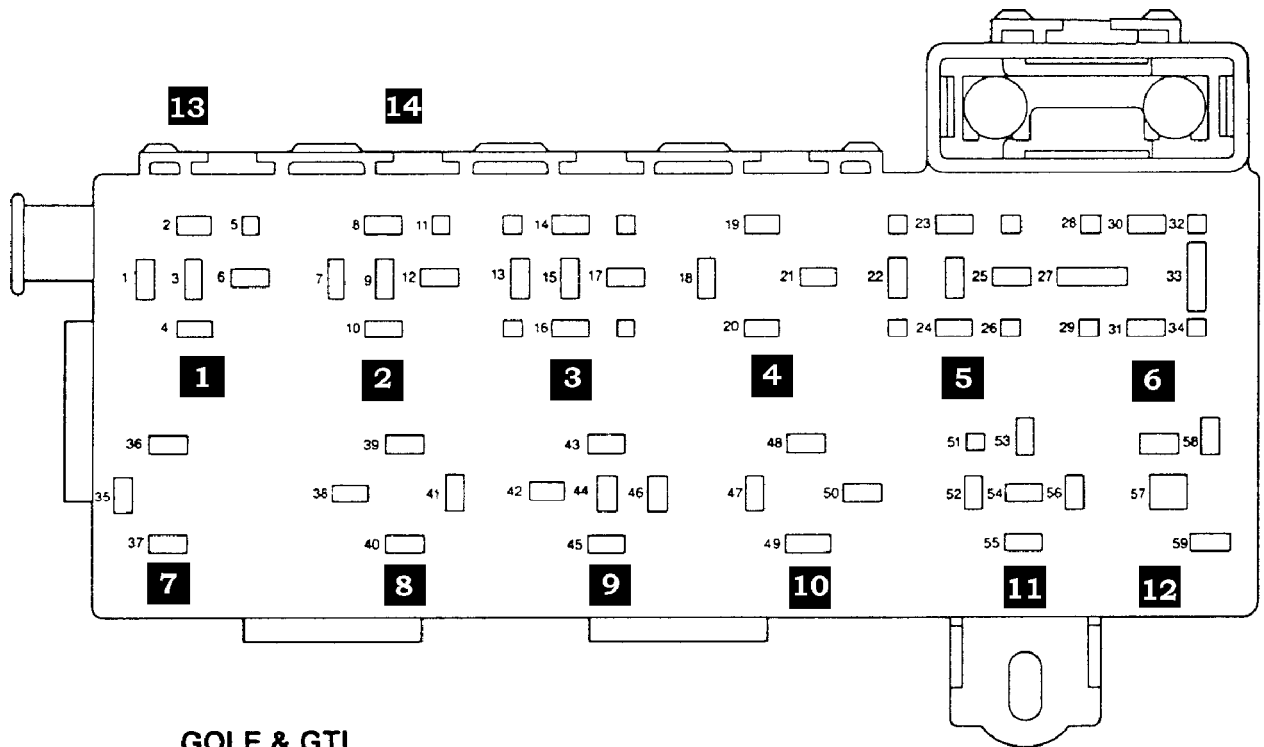
Article Text (p. 41)

1989 Volkswagen Golf

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GOLF & GTI

- | | |
|--------------------------------|----------------------------------------------|
| 1. Intermittent Wiper Relay | 8. Load Reduction Circuit Relay |
| 2. ECU Upshift Relay | 9. Idle Stabilizer Relay |
| 3. Horn Relay | 10. A/C High Blower Relay |
| 4. Low Speed Cooling Fan Relay | 11. Seat Belt Interlock Relay |
| 5. Not Used | 12. Seat Belt Interlock Relay |
| 6. Fuel Pump Relay | 13. O ₂ Sensor System Power Relay |
| 7. Turn Signal/Hazard Unit | 14. Rear Wiper/Washer Relay |
- 50B15587**

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

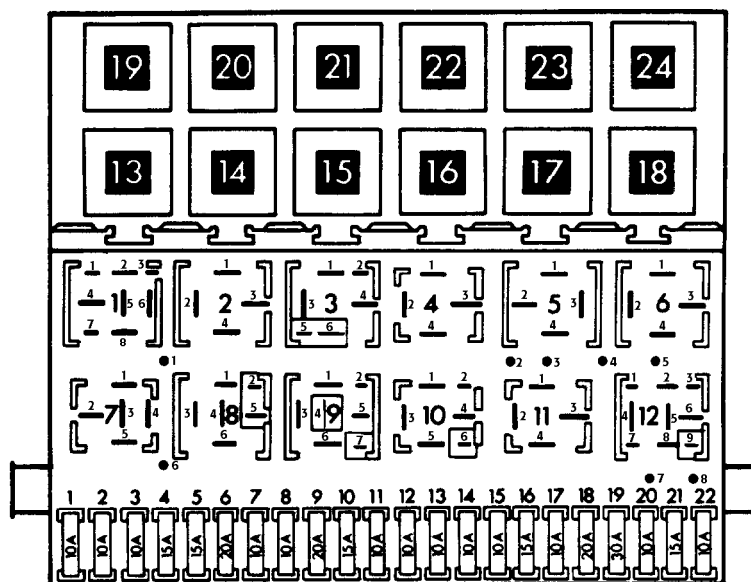
Article Text (p. 42)

1989 Volkswagen Golf

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Monday, August 23, 1999 11:48PM



Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Seat Belt Interlock Relay
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 43)

1989 Volkswagen Golf

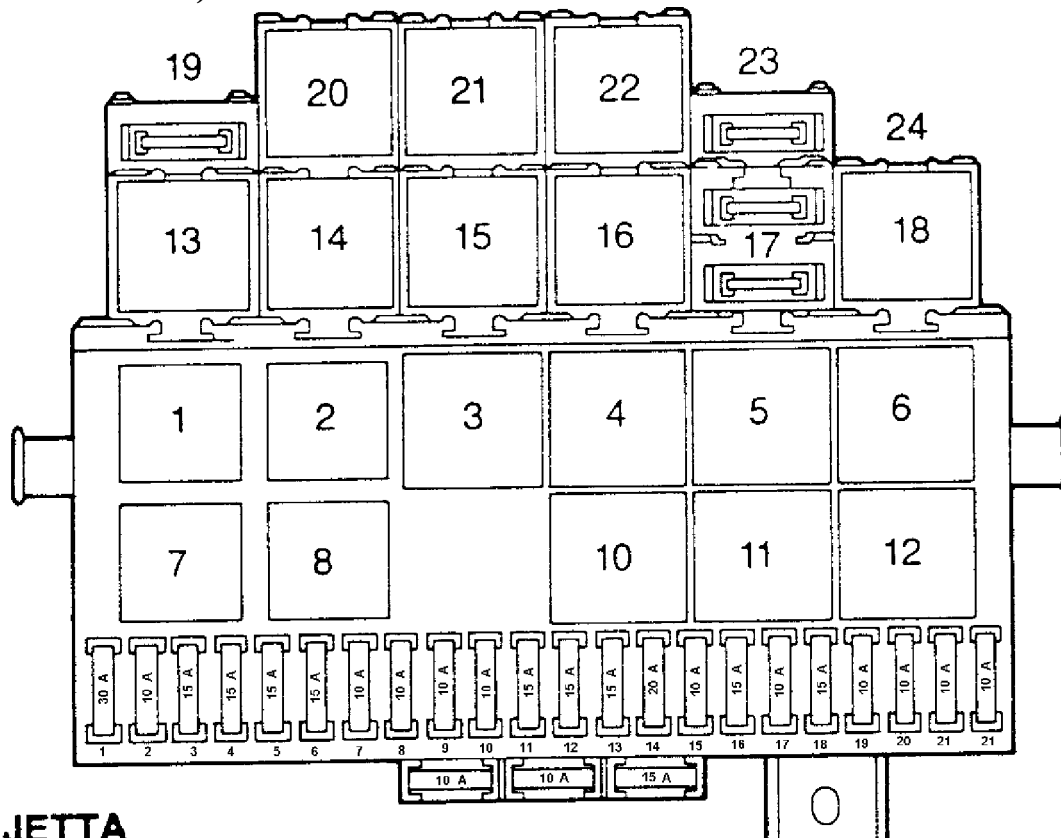
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Monday, August 23, 1999 11:48PM

Turn Signal/Hazard Unit

(Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

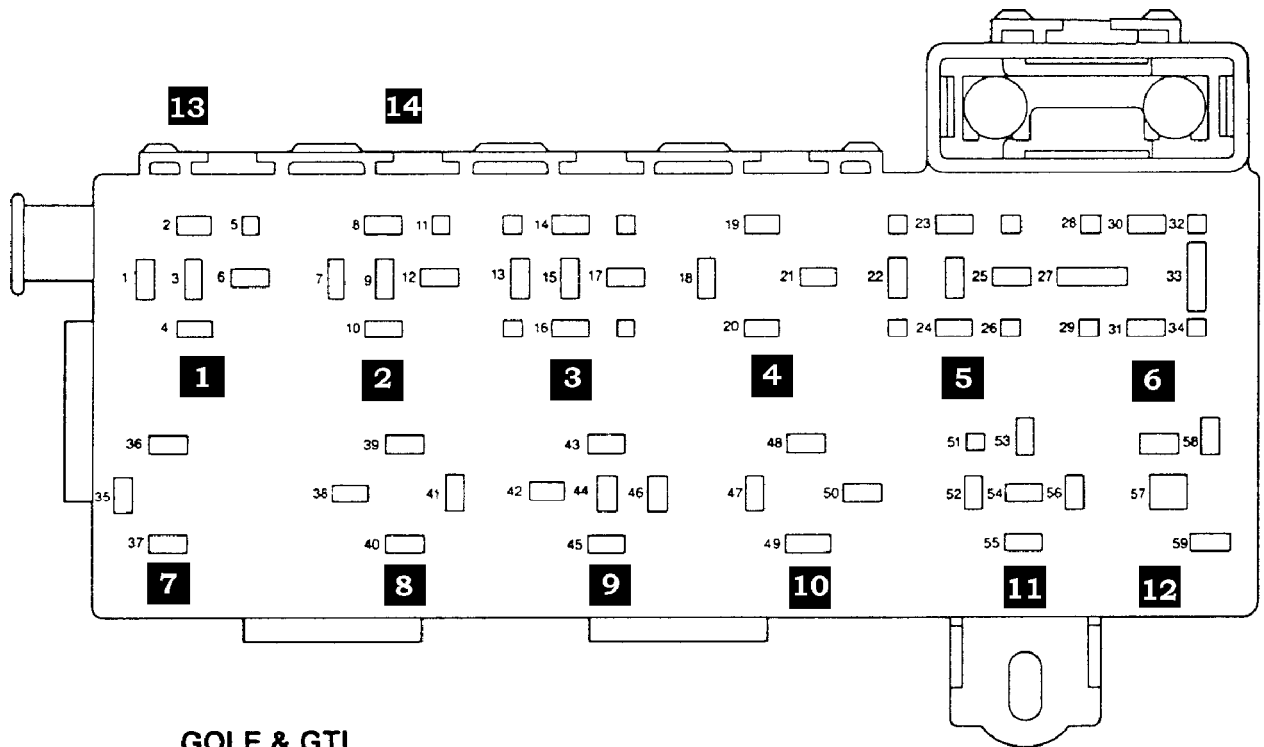
Article Text (p. 44)

1989 Volkswagen Golf

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GOLF & GTI

- | | |
|--------------------------------|----------------------------------------------|
| 1. Intermittent Wiper Relay | 8. Load Reduction Circuit Relay |
| 2. ECU Upshift Relay | 9. Idle Stabilizer Relay |
| 3. Horn Relay | 10. A/C High Blower Relay |
| 4. Low Speed Cooling Fan Relay | 11. Seat Belt Interlock Relay |
| 5. Not Used | 12. Seat Belt Interlock Relay |
| 6. Fuel Pump Relay | 13. O ₂ Sensor System Power Relay |
| 7. Turn Signal/Hazard Unit | 14. Rear Wiper/Washer Relay |
- 50B15587**

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

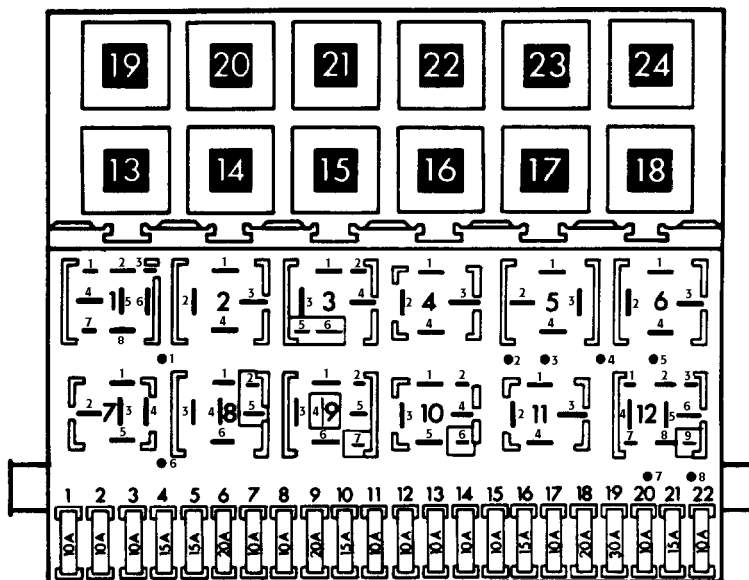
Article Text (p. 45)

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Monday, August 23, 1999 11:48PM



Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Turn Signal/Hazard Unit
(After Vin 1G-KW400 001)

On relay panel.

50D01954

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 46)

1989 Volkswagen Golf

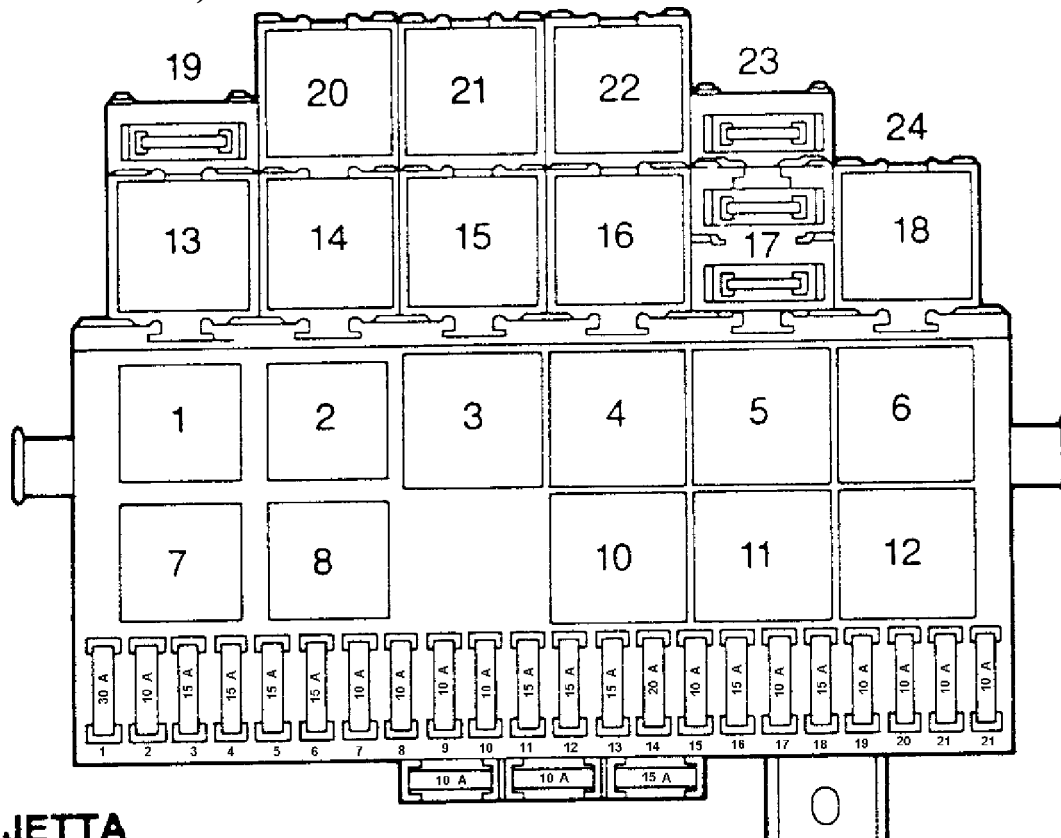
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Monday, August 23, 1999 11:48PM

Upshift Indicator Relay

(Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

Jetta

On relay panel.

50A15586

ELECTRICAL COMPONENT LOCATOR

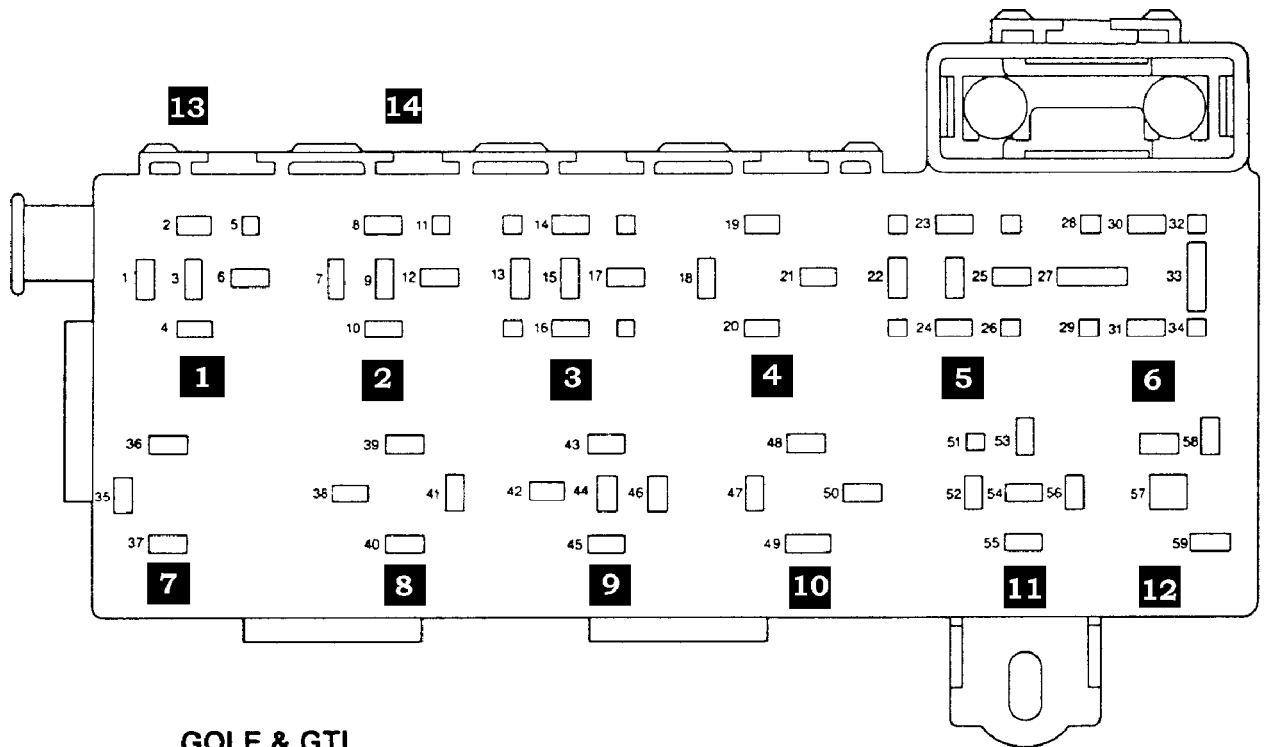
Article Text (p. 47)

1989 Volkswagen Golf

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GOLF & GTI

- | | |
|--------------------------------|----------------------------------------------|
| 1. Intermittent Wiper Relay | 8. Load Reduction Circuit Relay |
| 2. ECU Upshift Relay | 9. Idle Stabilizer Relay |
| 3. Horn Relay | 10. A/C High Blower Relay |
| 4. Low Speed Cooling Fan Relay | 11. Seat Belt Interlock Relay |
| 5. Not Used | 12. Seat Belt Interlock Relay |
| 6. Fuel Pump Relay | 13. O ₂ Sensor System Power Relay |
| 7. Turn Signal/Hazard Unit | 14. Rear Wiper/Washer Relay |
- 50B15587**

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

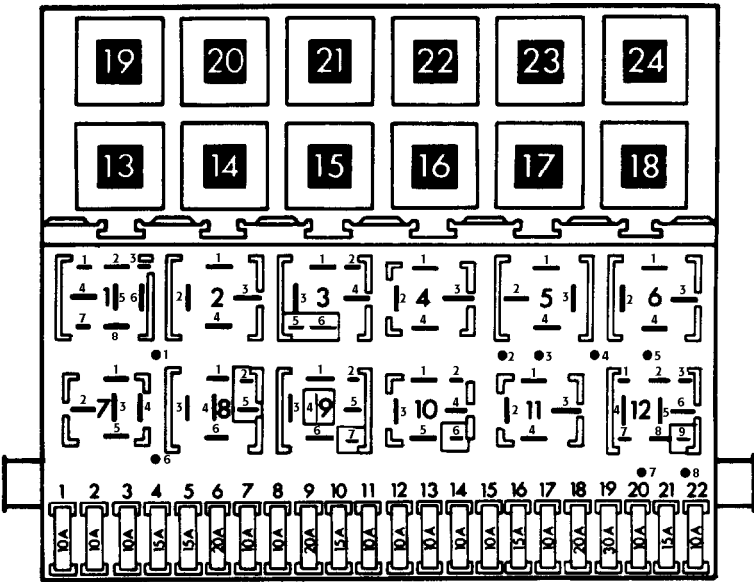
Article Text (p. 48)

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Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

Upshift Indicator Relay

(After Vin 1G-KW400 001)

On relay panel.

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

ELECTRICAL COMPONENT LOCATOR

Article Text (p. 49)

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CIRCUIT PROTECTION DEVICES

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

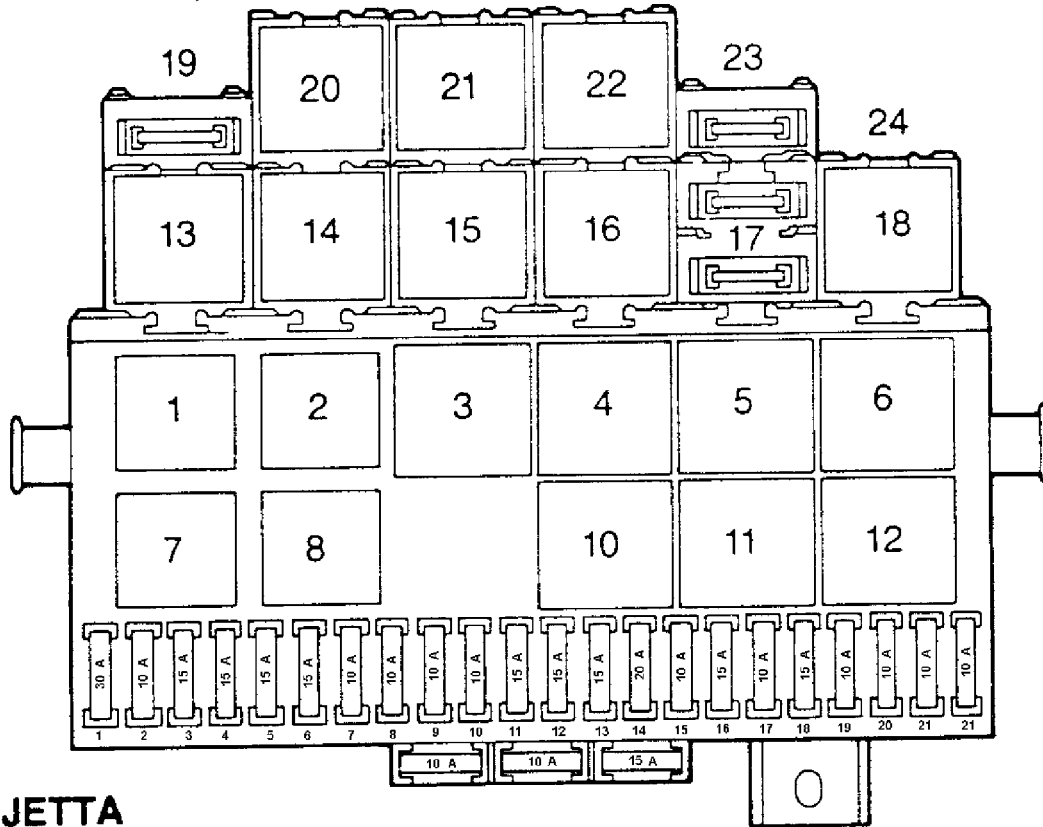
Component

Component Location

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

A/C Thermo Fuse

(Before Vin 1G-KW400 000)



JETTA

- | | |
|---------------------------------|----------------------------------------------|
| 1. Not Used | 13. Not Used |
| 2. Fuel Pump Relay | 14. Radiator Cooling Fan (16-Valve) |
| 3. Seat Belt Warning Relay | 15. O ₂ Sensor System Power Relay |
| 4. Not Used | 16. Idle Stabilizer Relay |
| 5. A/C Relay | 17. A/C Thermo Fuse |
| 6. Horn Relay | 18. Coolant Level Indicator Relay |
| 7. Not Used | 19. Power Window Relay |
| 8. Load Reduction Circuit Relay | 20. Heated Seat Relay |
| 10. Intermittent Wiper Relay | 21. Heated Seat Relay |
| 11. Not Used | 22. Not Used |
| 12. Turn Signal/Hazard Unit | 23. Power Window Fuse |

ELECTRICAL COMPONENT LOCATOR

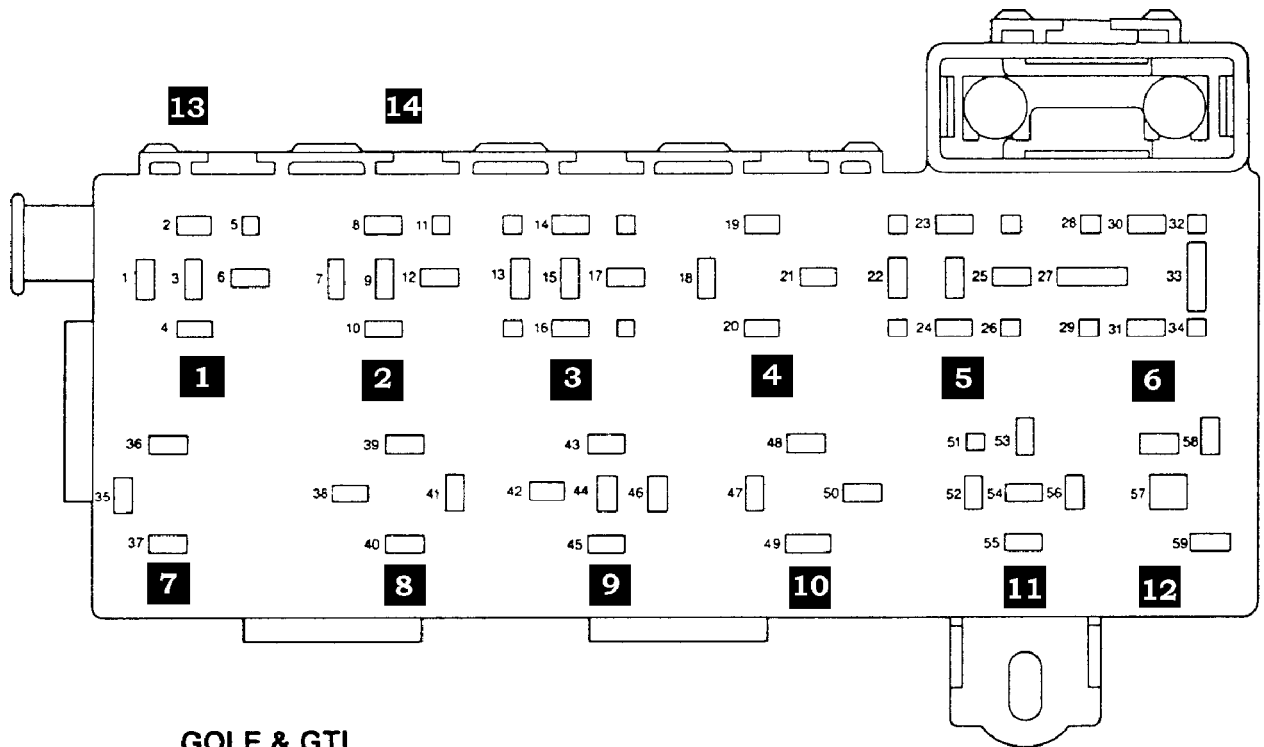
Article Text (p. 50)

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GOLF & GTI

- | | |
|--------------------------------|----------------------------------------------|
| 1. Intermittent Wiper Relay | 8. Load Reduction Circuit Relay |
| 2. ECU Upshift Relay | 9. Idle Stabilizer Relay |
| 3. Horn Relay | 10. A/C High Blower Relay |
| 4. Low Speed Cooling Fan Relay | 11. Seat Belt Interlock Relay |
| 5. Not Used | 12. Seat Belt Interlock Relay |
| 6. Fuel Pump Relay | 13. O ₂ Sensor System Power Relay |
| 7. Turn Signal/Hazard Unit | 14. Rear Wiper/Washer Relay |
- 50B15587**

Golf & GTI

On relay panel.

ELECTRICAL COMPONENT LOCATOR

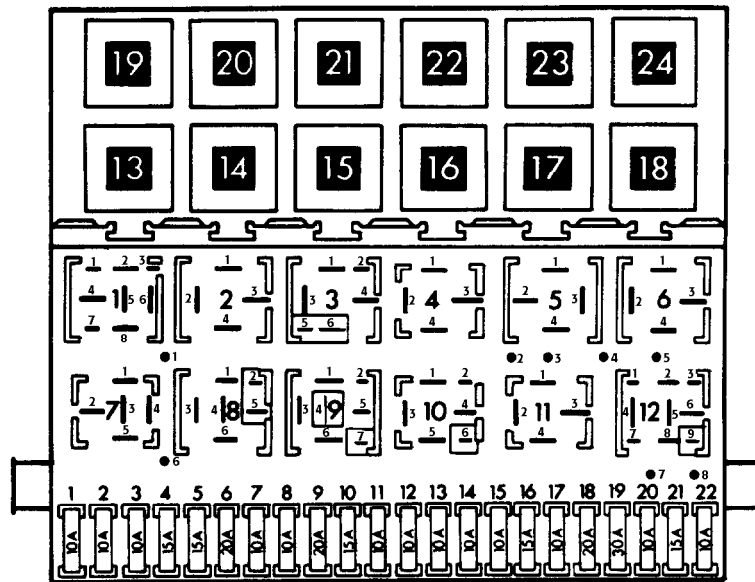
Article Text (p. 51)

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For Volkswagen Technical Site

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Fuses

Relays

Fuse No.	Description	Ampere Rating	Relay No.	Description
1	Headlight, low beam, left	10	1	A/C
2	Headlight, low beam, right	10	2	Open
3	Instrument panel lights, license plate lights	10	3	Digifant control unit, or open
4	Glove box light	15	4	Load reduction relay
5	Wiper/washer	15	5	Low coolant level control unit
6	Fresh air blower	20	6	Emergency flasher
7	Taillights, side marker light, right	10	7	Open
8	Taillights, side marker light, left	10	8	Intermittent wiper
9	Rear window defogger	20	9	Seat belt warning system
10	Open, or fog lights (2.0 16-valve)	15	10	Open
11	Headlight, high beam, left	10	11	Horn
12	Headlight, high beam, right	10	12	Fuel pump
13	Horn, radiator cooling fan	10	13	Radiator cooling fan after run, or starter interlock relay (2.0 16-valve)
14	Backup lights, washer nozzle heaters	10	14	Automatic transmission, coolant temperature indicator, or radiator cooling fan after run (2.0 16-valve), or starter interlock relay
15	Open, or engine electronics (2.0 16-valve)	10	15	ABS pump relay
16	Dash warning lights	15	16	ABS relay
17	Emergency flasher switch	10	17	Open, or heated seat control unit, driver
18	Fuel pump, OXS heater (gasoline engines)	20	18	Heated seat control unit, passenger, or power seat circuit breaker
19	Radiator cooling fan, A/C	30	19	Automatic transmission
20	Brake lights, cruise control	10	20	Open
21	Interior lights, digital clock	15	21	Power window relay/ABS pump fuse
22	Radio, cigarette lighter	10	22	ABS valves fuse
			23	A/C, power seat fuse
			24	Power window fuse

A/C Thermo Fuse
(After Vin 1G-KW400 001)

On relay panel.

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ELECTRICAL COMPONENT LOCATOR

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Fuse Panel (Golf & GTI)	Under dash, near right side of steering column.
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Fusible Links	On left front corner of engine compartment.
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Relay Panel	Under left side of dash.
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CONTROL UNITS

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Component	Component Location
-----------	--------------------

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

CIS Control Unit	Behind center console.
------------------	------------------------

CIS-E Control Unit	On left plenum panel.
--------------------	-----------------------

Cruise Control Unit	Under stereo in center console, or behind glove box.
---------------------	------------------------------------------------------

Hall (TCI-H) Control Unit	On plenum panel, near wiper motor.
---------------------------	------------------------------------

Knock Sensor Control Unit	At rear of engine compartment.
---------------------------	--------------------------------

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MOTORS

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Component	Component Location
-----------	--------------------

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Fuel Pump (Feed)	In gas tank.
------------------	--------------

Fuel Pump (Main)	Under right side of vehicle, at frame rail.
------------------	---------------------------------------------

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SENDING UNITS & SENSORS

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Component	Component Location
-----------	--------------------

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Altitude Sensor	On left plenum panel.
-----------------	-----------------------

Coolant Level Sensor	In coolant reservoir tank.
----------------------	----------------------------

ELECTRICAL COMPONENT LOCATOR

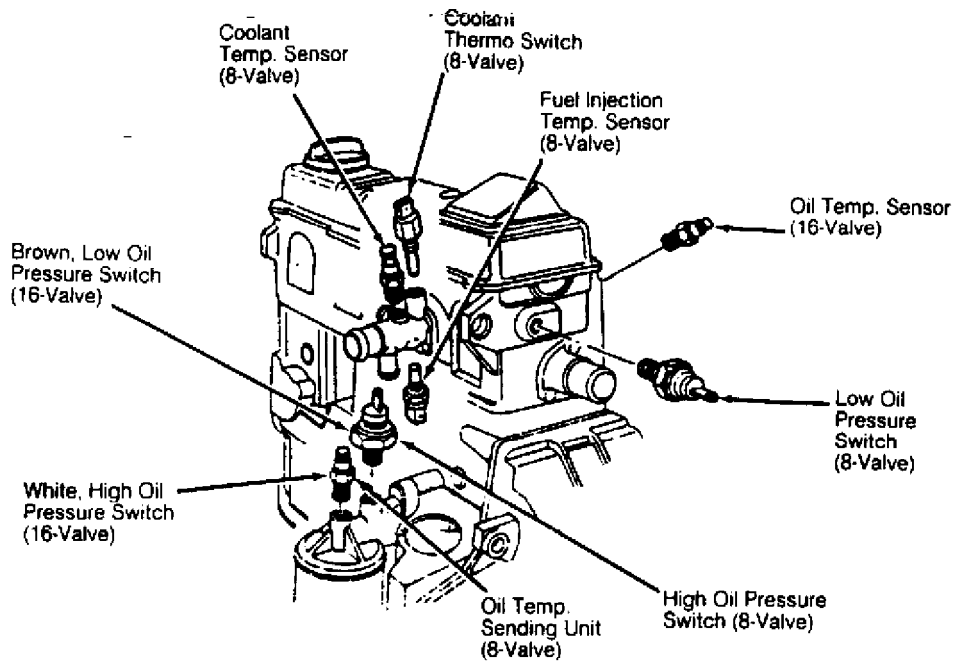
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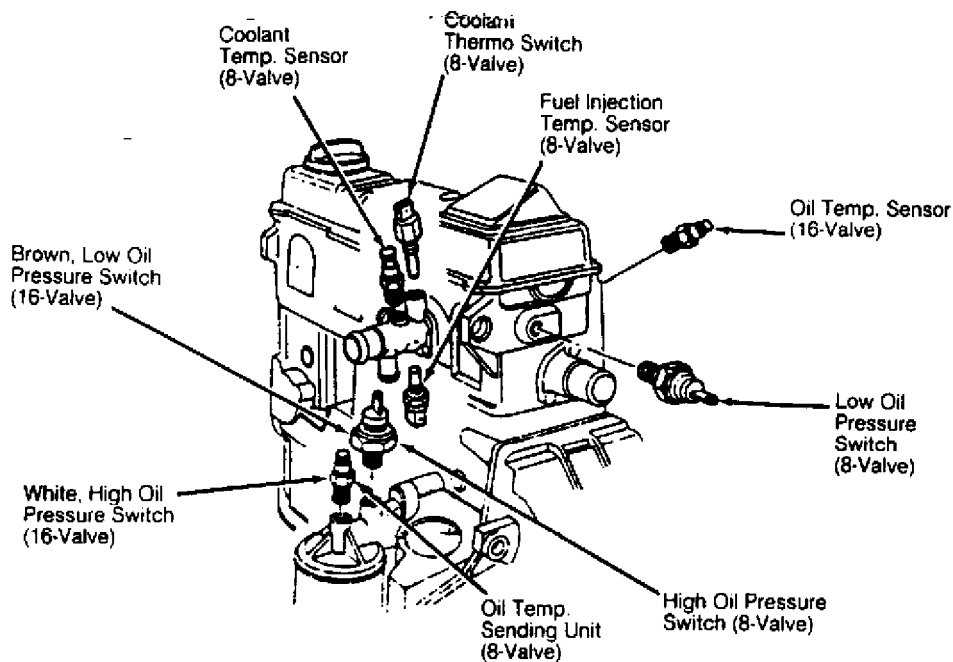
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Coolant Temperature Sensor
8-Valve, Engine

In coolant flange, on left of
cylinder head.



Coolant Temperature Sensor
16-Valve, Engine

Under coolant flange, under
distributor.

ELECTRICAL COMPONENT LOCATOR

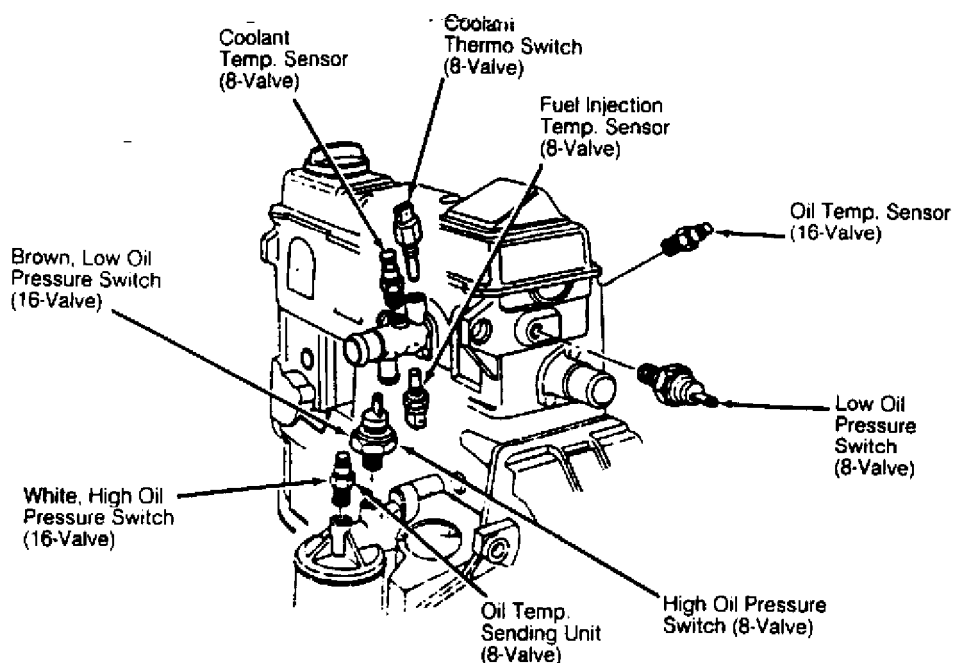
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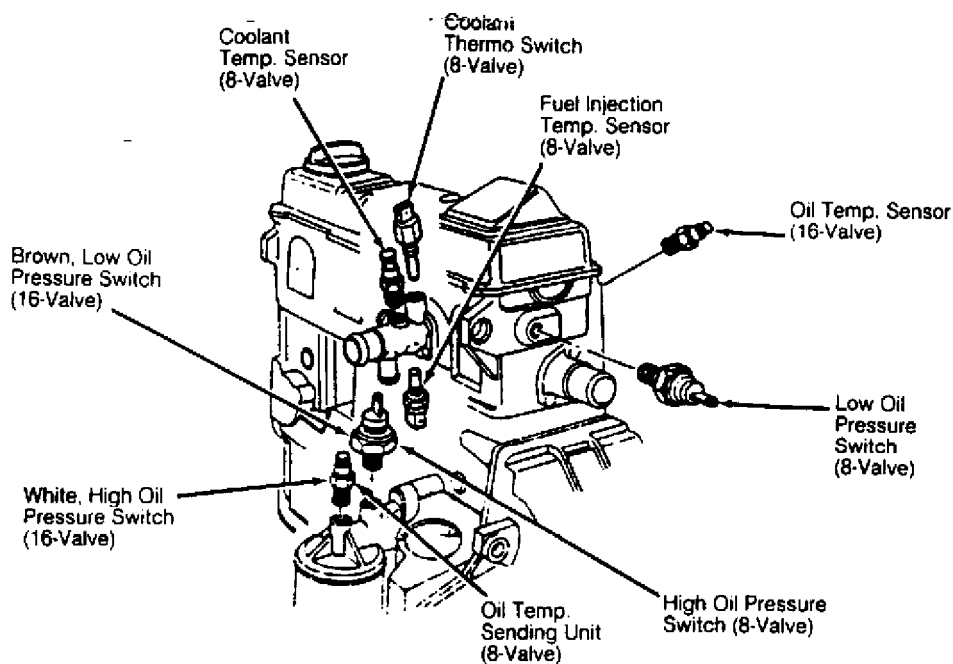


Fuel Injection Temp. Sensor

On left side of engine block.

Knock Sensor

On lower left corner of engine block.



Oil Temperature Sending Unit
8-Valve, Engine

In coolant flange, on left of cylinder head.

ELECTRICAL COMPONENT LOCATOR

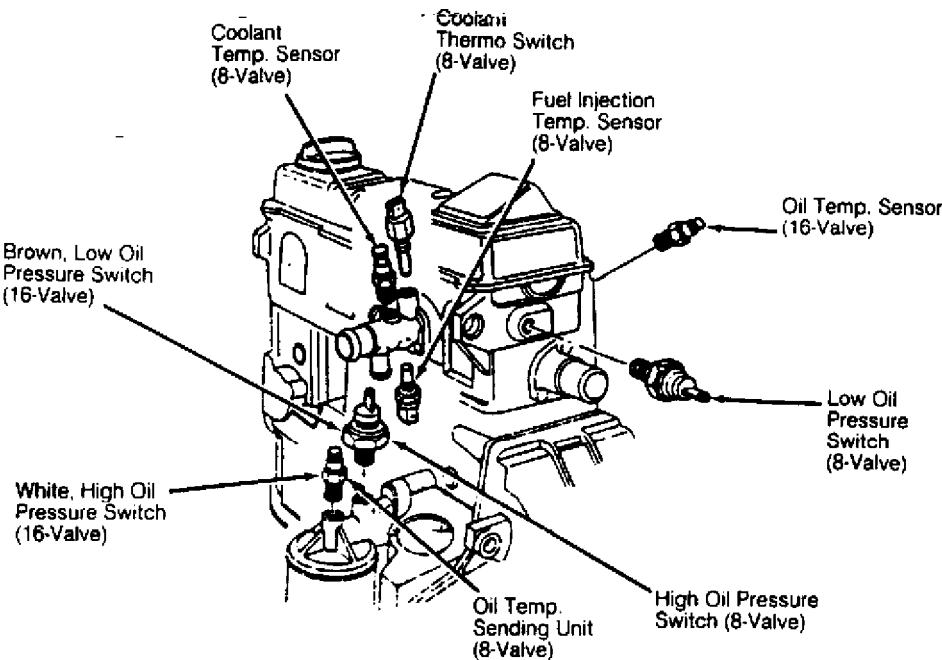
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Oil Temperature Sending Unit
16- Valve, Engine

Under coolant flange, under
distributor.

Oxygen Sensor

In exhaust manifold or
catalytic converter.

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SWITCHES

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Component	Component Location
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A/C Pressure Switches	In A/C lines, near condenser.
-----------------------	-------------------------------

A/C Thermostat	In coolant flange, on left front engine.
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Back-Up/Upshift Indicator Light Sw.	On top center of transaxle.
-------------------------------------	-----------------------------

Brake Failure Switch	In brake line proportioning valve.
----------------------	------------------------------------

Brake/Stoplight Switch	On brake pedal bracket.
------------------------	-------------------------

Cooling Fan Thermostat	In lower left corner of radiator.
------------------------	-----------------------------------

ELECTRICAL COMPONENT LOCATOR

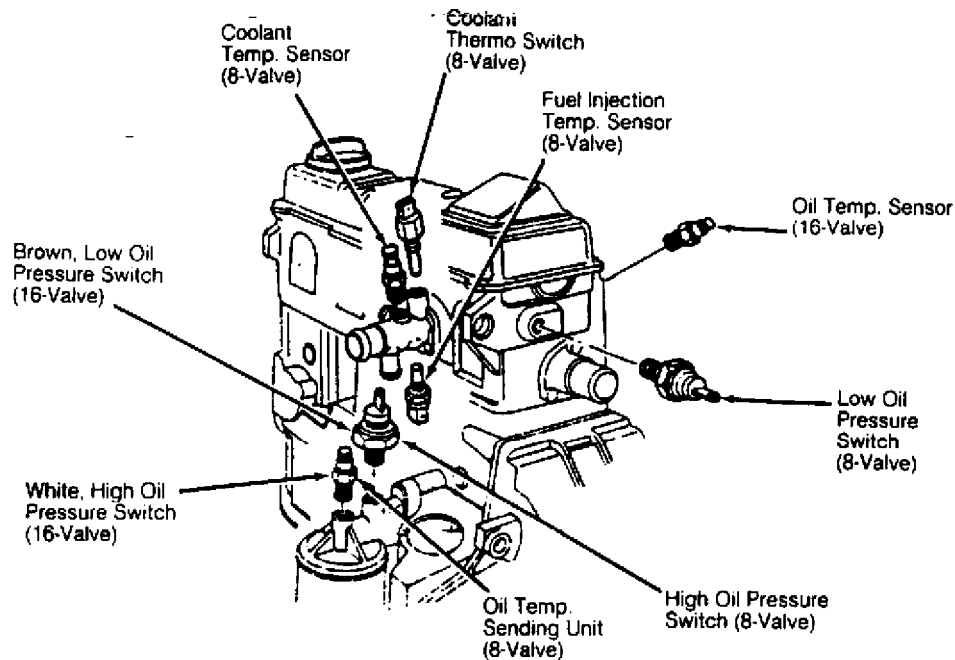
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Coolant Thermostwitch
8- Valve, Engine

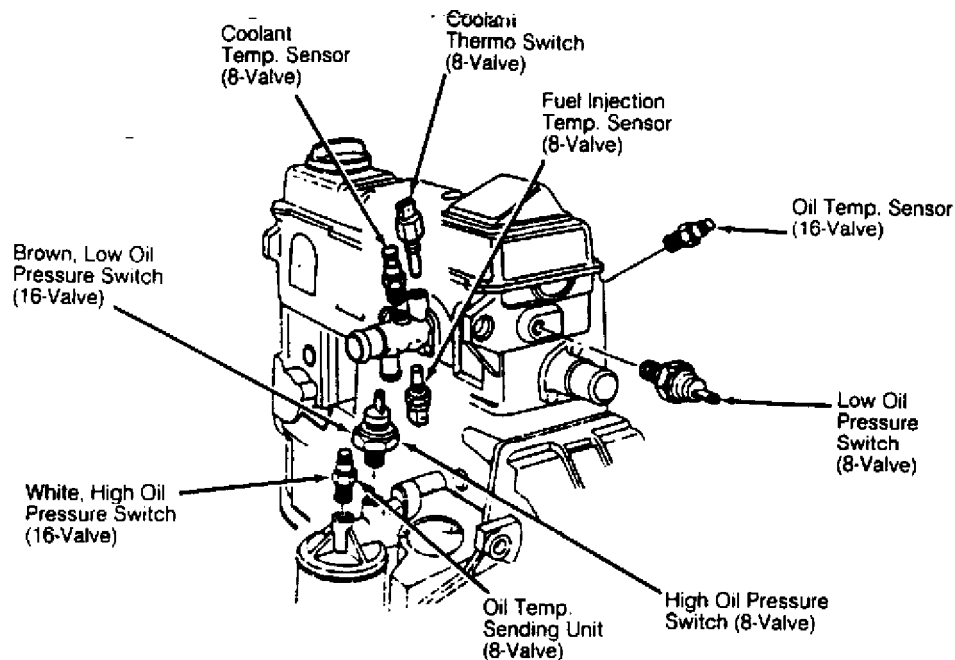
In coolant flange, on left
side of engine.

Cruise Control Brake Switch

On brake pedal bracket.

Cruise Control Clutch Switch

On clutch pedal bracket.



Oil Pressure Switches
Low Pressure, 8- Valve, Engine

At rear of cylinder head.

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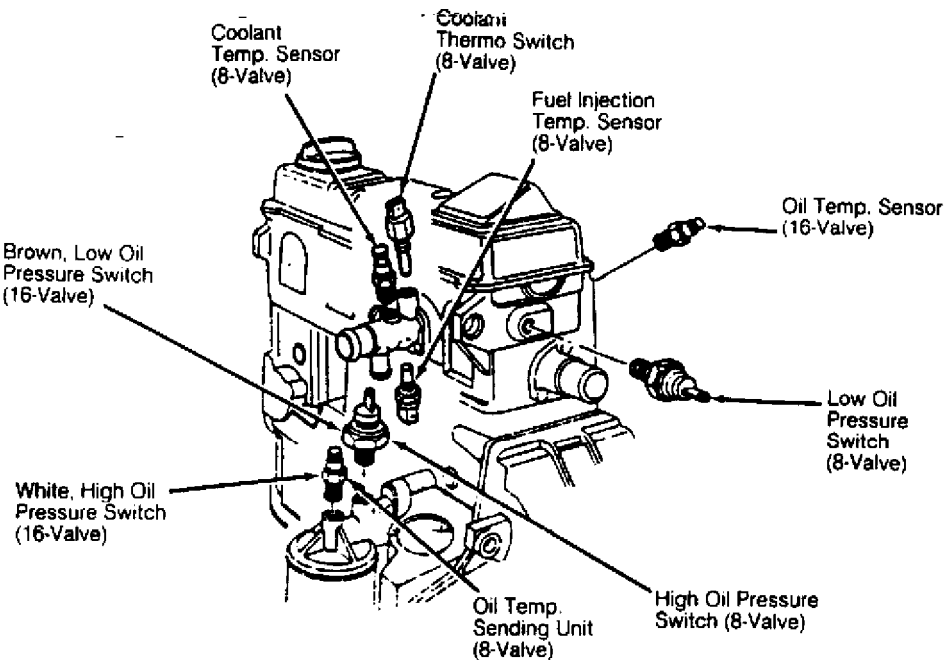
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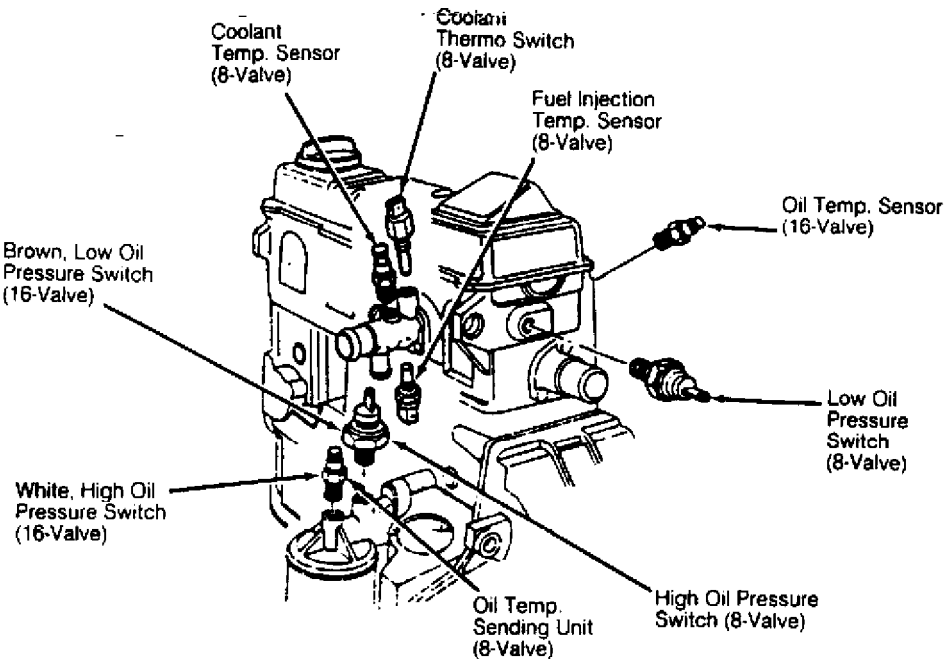
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Oil Pressure Switches
Low Pressure, 16- Valve, Engine

On oil filter bracket.



Oil Pressure Switches
High Pressure

On oil filter bracket.

Parking Brake Switch

At base of parking brake
lever.

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MISCELLANEOUS

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Component	Component Location
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Cooling Fan Series Resistor	Attached to fan motor housing.
Emission Light Reset Module	On left side of engine compartment firewall.
Instrument Voltage Stabilizer	On back of instrument cluster, above speedometer.
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	

END OF ARTICLE