



Wiring Diagrams

**Vanagon
1985-1986**

Service Publications

This publication contains electrical wiring diagrams for Volkswagen Vanagon models, model years 1985 and 1986 sold in the USA and Canada. Whenever working on Volkswagen cars, follow the procedures described on the appropriate Repair Manual Microfiche. Use of tools or procedures other than those recommended may be detrimental to the safe operation of the vehicle as well as the safety of the person doing the repair.

Before working on any car, read Cautions and Warnings.

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1985

1986

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Cautions and Warnings

Whenever working on Volkswagen vehicles, follow the procedures described on the appropriate Repair Manual Microfiche. Use of tools or procedures other than those recommended may be detrimental to the safe operation of the vehicle as well as to the safety of the person doing the repair.

Before working on any car, read Cautions and Warnings:

CAUTION

- If you lack the skills, tools and equipment, or a suitable workshop for repair on the electrical system, we suggest you leave such repairs to an Authorized Dealer or other qualified shop.
- Before a job, make certain that you have all necessary tools and parts on hand. Read all instructions thoroughly; do not attempt shortcuts. Use tools appropriate to the work and use only replacement parts meeting Volkswagen specifications. Makeshift tools, parts, and procedures will not make good repairs.

WARNING

- Never work under a lifted car unless it is solidly supported on stands intended for the purpose. Do not support a car on cinder blocks, hollow tiles, or other props that may crumble under continuous load. Do not work under a car that is supported solely by a jack.
- If you are going to work under a car on the ground, make sure that the ground is level. Block the wheels to keep the car from rolling. Disconnect the battery ground strap to prevent others from starting the car while you are under it.
- Never run the engine unless the work area is well-ventilated. Carbon monoxide kills.
- Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing, or necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.
- Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the car. Make sure its bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If hydrogen gas escaping from the cap vents is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with battery acid. Gloves or other protective clothing should be worn whenever the job requires it.

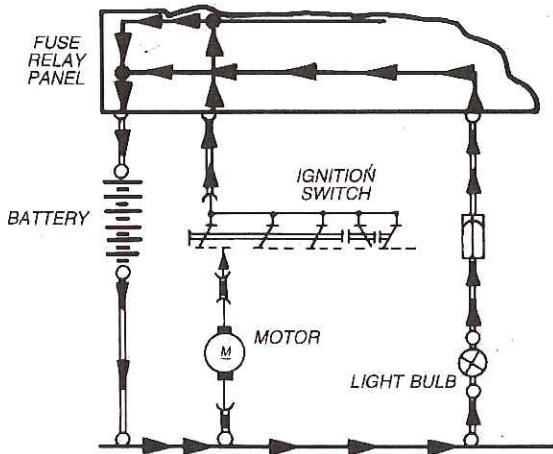
General

Working On The Electrical System

The electrical system of our cars is getting more and more sophisticated. If guesswork and hit-and-miss replacement of parts did not work in the past when attempting repairs, it surely won't work today.

The schematics in this book are called "Current Flow Diagrams." By showing how electrical current flows through electrical components that work together in circuits, troubleshooting is much easier with these schematics.

Each diagram in this book shows the powerflow through all wires, connectors, switches, and motors beginning at the top of the page down to ground at the bottom. A test light, or better still, a volt/ohm meter can be very helpful for testing circuits.



To trace a circuit you should start with the ground and then follow the wires back to the source of power. Note the color of wires in the diagram. Sometimes the color will be different on the car. Don't be concerned, just be sure to learn that the wires connect the proper terminals.

To learn more about the details in the diagrams, see "How to Read Current Flow Diagrams."

Troubleshooting Procedure

Verify the complaint:

Check customer's complaint to understand what the problem is. If possible, let customer show you what happens.

Analyze the problem:

Find the diagram in the book that applies to the car. Identify the circuit that most likely affects your problem. By following the circuit from ground to power source, get an understanding of how the circuit works.

Find the problem:

You will find the problem if you follow a simple and logical step-by-step procedure. Test portions of the circuit, one at a time, starting with the most likely area. Test at points that you can reach easily.

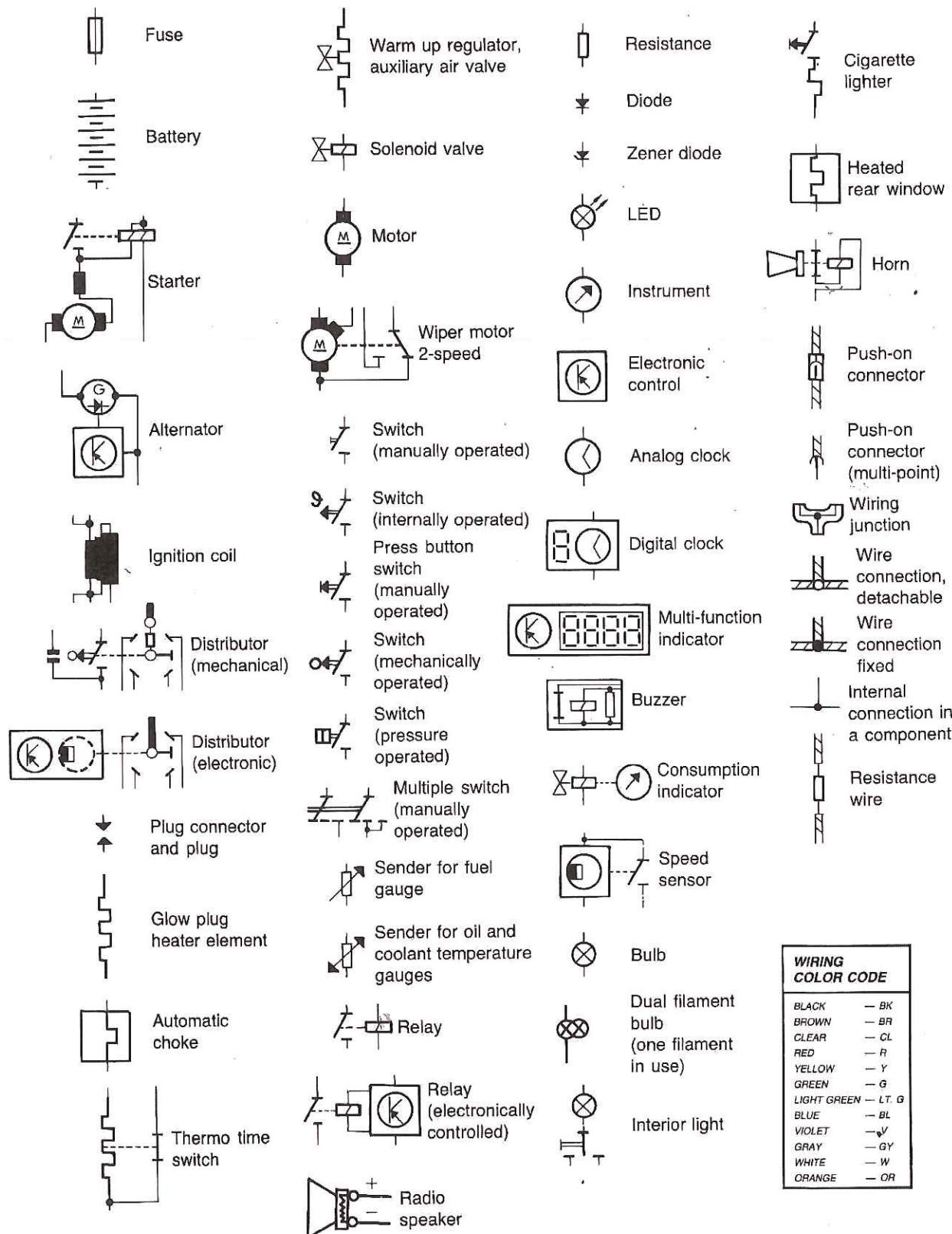
Repair the problem:

When you find the cause of the problem, make the repair.

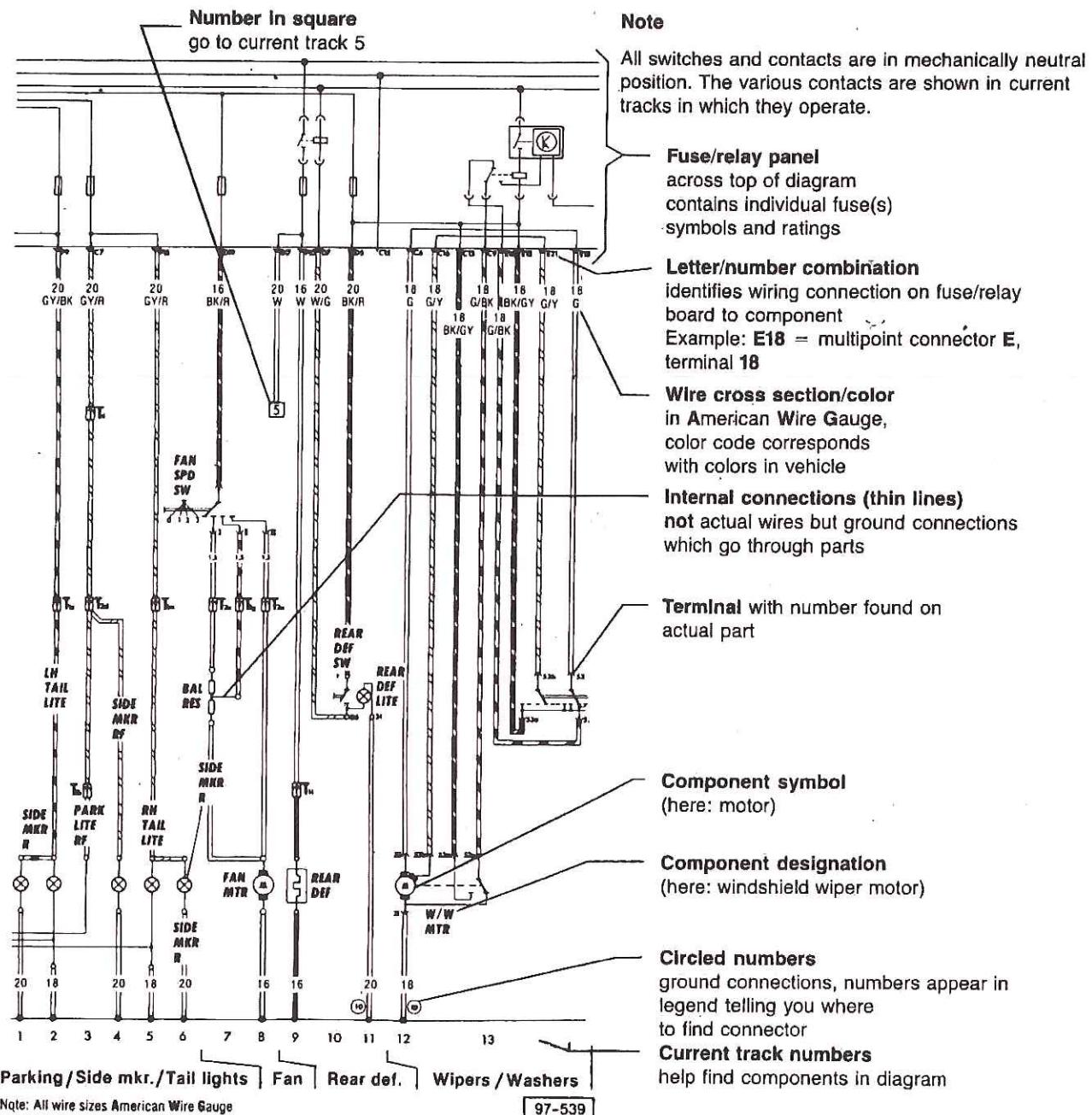
Check the results:

Be sure it works. Check all parts of the circuit that you worked on.

General



General



Sample Legend

Description	Current Track	Wire Connectors	Current Track
Parking light, right front	79	T2d — behind dash	79
Rear window defogger element	85	T2e — behind dash	83,84
Rear window defogger indicator light	87		
Rear window defogger relay	85	10 — Ground connector, instrum. clstr.	87,88
Rear window defogger switch	86		
Sidemarker, right front	80	11 — Ground connector, body	
Sidemarker, rear	77, 82		
Tail light, right	81		
Windshield wiper intermittent switch	68		
Windshield wiper motor	88,89		

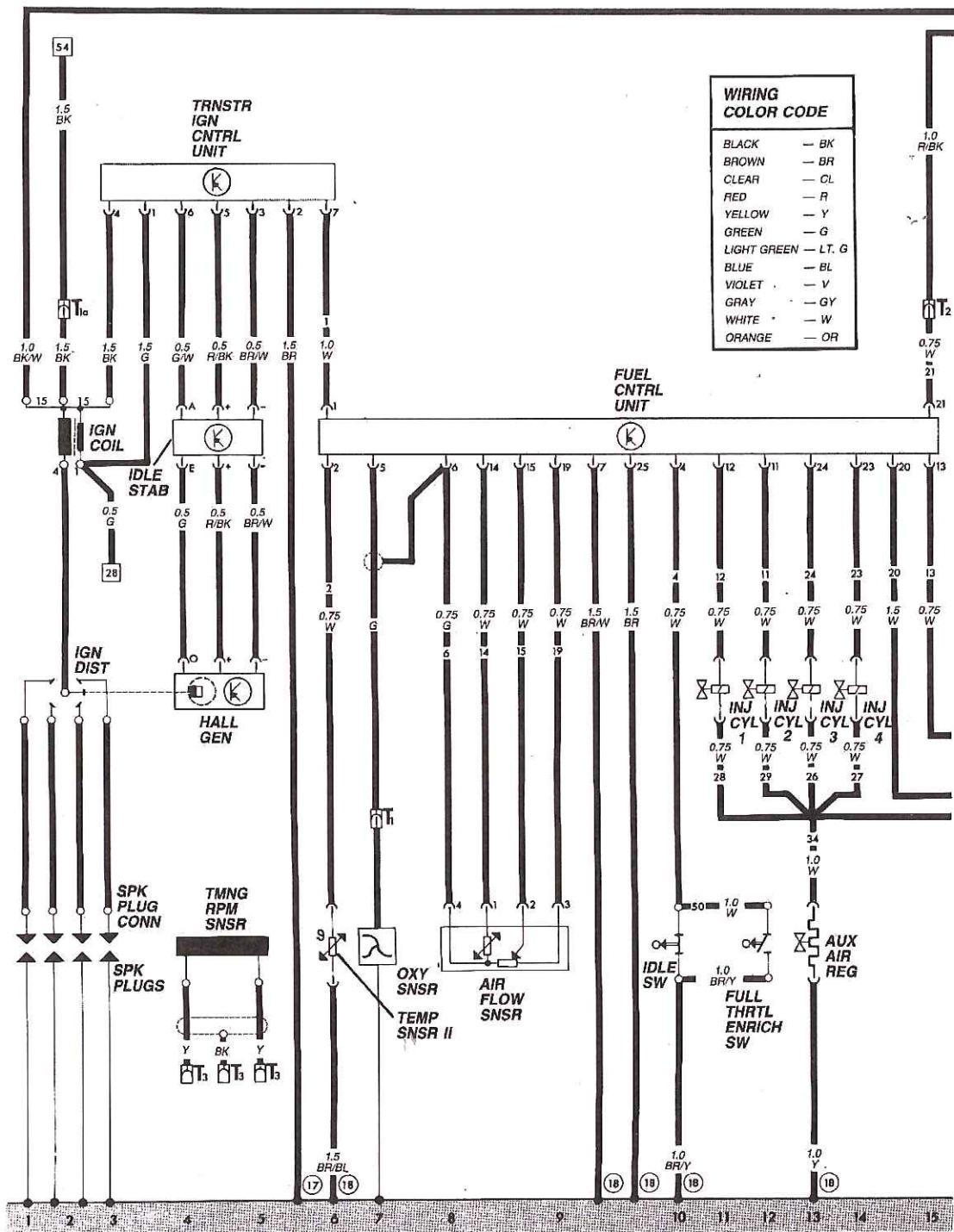
Notes

Vanagon

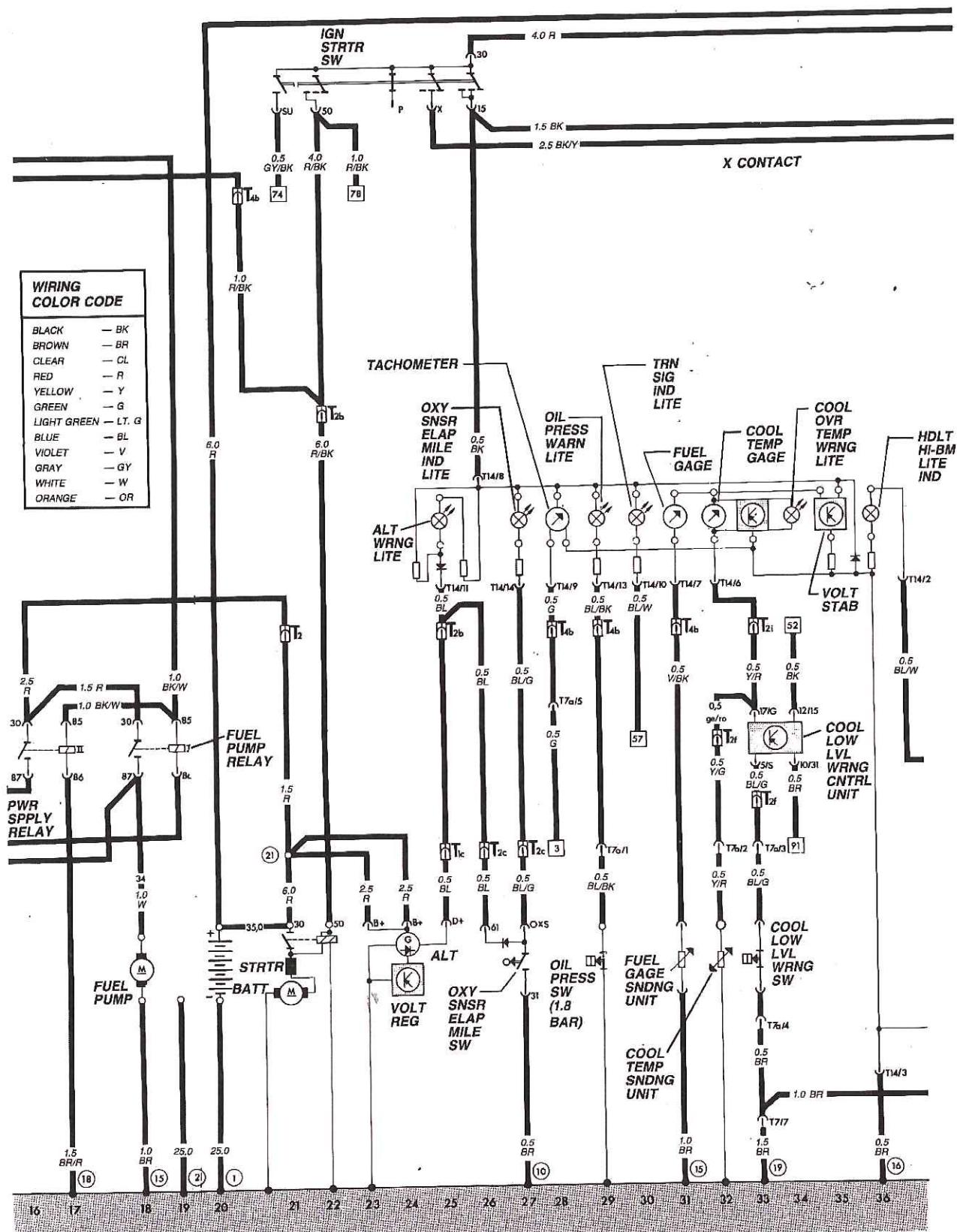
Description	Current Track	Description	Current Track	Wire Connectors
Air flow sensor	8, 9	License plate light	42, 43	T1 — single, in engine compart., left
Alternator	24	Light switch	40-42	T1a — single, in connector housing
Alternator warning light	26			T1c — single, in connector housing
Auxiliary air regulator	13			T1d — single, behind dash
Battery	20	Oil-pressure switch (1.8 bar)	29	T1e — single, in connector housing
Back-up light, left	55	Oil-pressure warning light	29	T1f — single, behind dash
Back-up light, right	54	Oxygen sensor	7	T1h — behind dash
Back-up light switch	54	Oxygen-sensor elapsed-mileage indicator light	28	T1i — at roof cross-beam, rear left
Blower fan	105	Oxygen-sensor elapsed-mileage switch	28	T2 — double, on fuse/relay panel
Blower-fan control-lever light	67	Parking light, left	48	T2b — double, behind dash, left
Blower-fan resistance	104	Parking light, right	42	T2c — double, behind dash
Blower switch	104, 105	Parking-brake warning light switch	76	T2f — double, behind dash
Brake light, left	80	Power supply relay	16, 17	T2h — double, in connector housing
Brake light, right	79	Radiator fan	88	T2l — double, behind dash
Brake light switch	79, 80	Radiator-fan relay	88-90	T3 — 3-point, near alternator in engine compart.
Brake warning light	77-79	Radiator-fan thermoswitch I	88	T4 — 4-point, behind-dash
Cigarette lighter	69	Radiator-fan thermoswitch II	90	T4b — 4-point, in connector housing
Cigarette-lighter light	68	Radio connection	60	T7 — 7-point, in connector housing
Clock	51	Rear side-marker lights	46, 47	T7a — 7-point, in connector housing
Coolant low-level-warning control unit	33, 34	Rear-window defogger heater element	93	T14 — 14-point on instrument cluster
Coolant low-level-warning switch	33	Rear-window defogger indicator light	94	
Coolant over-temperature warning light	34	Rear-window defogger switch	93-95	
Coolant-temperature gauge	32	Rear-window defogger switch light	95	
Coolant-temp. sending unit	32	Seat-belt buzzer contact, left	73	
Degagger cut-out relay (X-contact)	91-97	Seat-belt warning light	75	
Door contact/buzzer switch, left	72, 73	Seat-belt warning relay	73, 75	
Door contact switch, front right	71	Spark plugs	1-3	
Door contact switch, right sliding door	84	Spark plug connectors	1-3	
Emergency-flasher relay	55-57	Starter	20, 22	
Emergency-flasher switch	57-68			
Emergency-flasher warning light	66			
Fuel control unit	6-15	Tail light, left	48	
Fuel gauge	31	Tail light, right	45	
Fuel-gauge sending unit	31	Temperature sensor	6	
Fuel pump	18	Timing/RPM sensor	4, 5	
Fuel pump relay	16-19	Transistorized ignition control unit	3-6	
Full-throttle enrichment switch	11-12	Turn-signal indicator light	30	
Hall generator	4, 5	Turn-signal light, front-left	64	
Headlight dimmer/flasher switch	37, 39	Turn-signal light, front-right	62	
Headlight-high-beam light	36	Turn-signal light, rear-left	65	
Headlight, left	37, 39	Turn-signal light, rear-right	63	
Headlight, right	38, 40	Turn-signal switch	61	
Horn	53	Voltage stabilizer	35	
Horn button	53			
Idler stabilizer	4, 5	Washer/wiper interm. relay	98-100	
Idle switch	10	Windshield-washer pump	96	
Ignition coil	1-3	Windshield-wiper interm. switch	98-103	
Ignition distributor	1-3	Windshield-wiper motor	100-103	
Ignition/starter switch	22-27			
Injector cylinder 1	11			
Injector cylinder 2	12			
Injector cylinder 3	13			
Injector cylinder 4	14			
Instrument-panel light	49, 50			
Instrument-panel light dimmer	43			
Interior light, front	81-83			
Interior light, rear	86, 87			

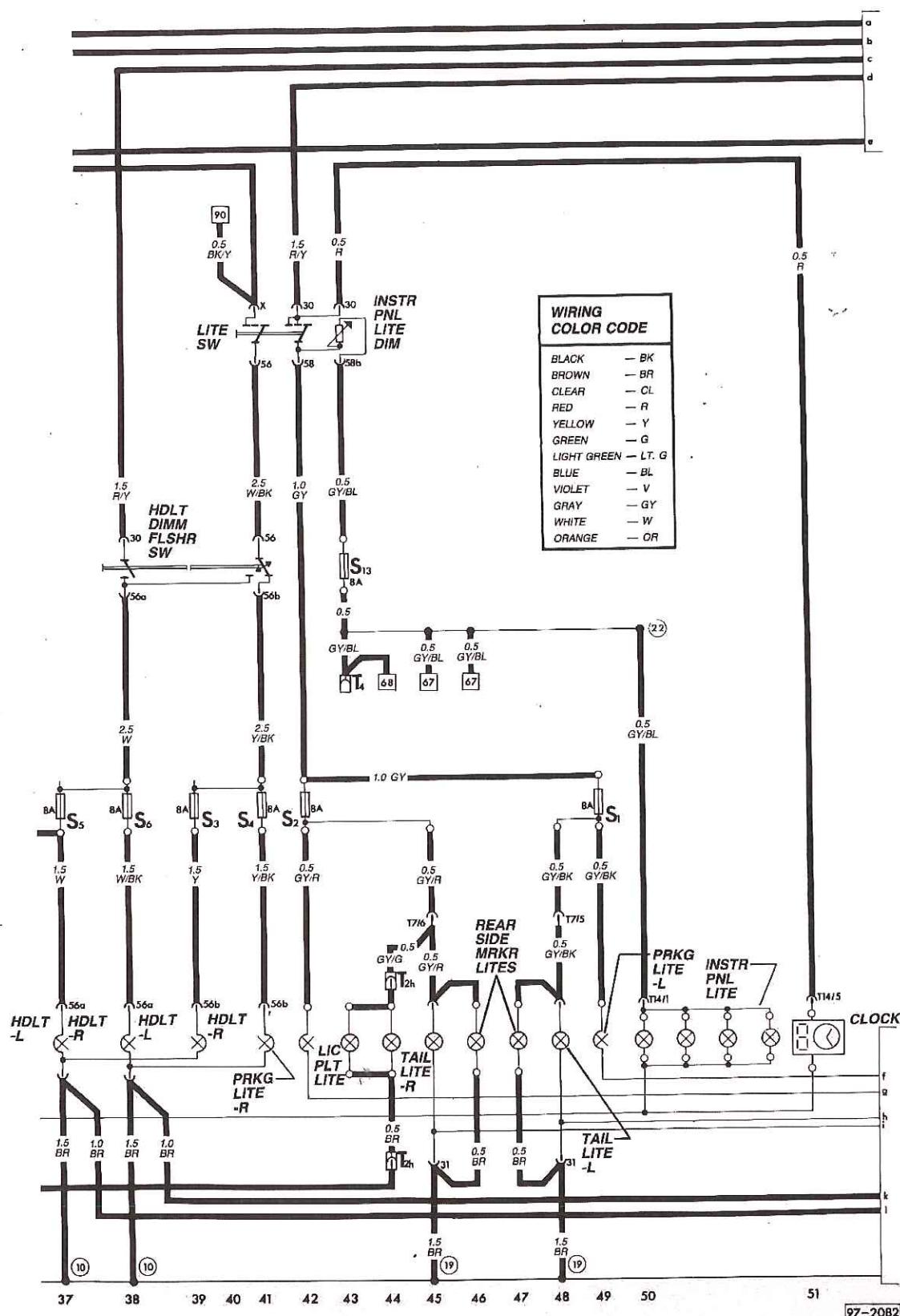
Ground Connectors

- (1) — from battery to body
- (2) — from transmission to body
- (9) — behind dash near fuse/relay panel
- (10) — behind dash
- (12) — at steering-gear housing
- (13) — behind air vent
- (14) — at rear deck
- (15) — near fuel pump at floor board/crossmember
- (17) — near ignition distributor
- (18) — left at cylinder head
- (19) — near ignition coil, in engine compart., left
- (21) — plus connection, in connector housing

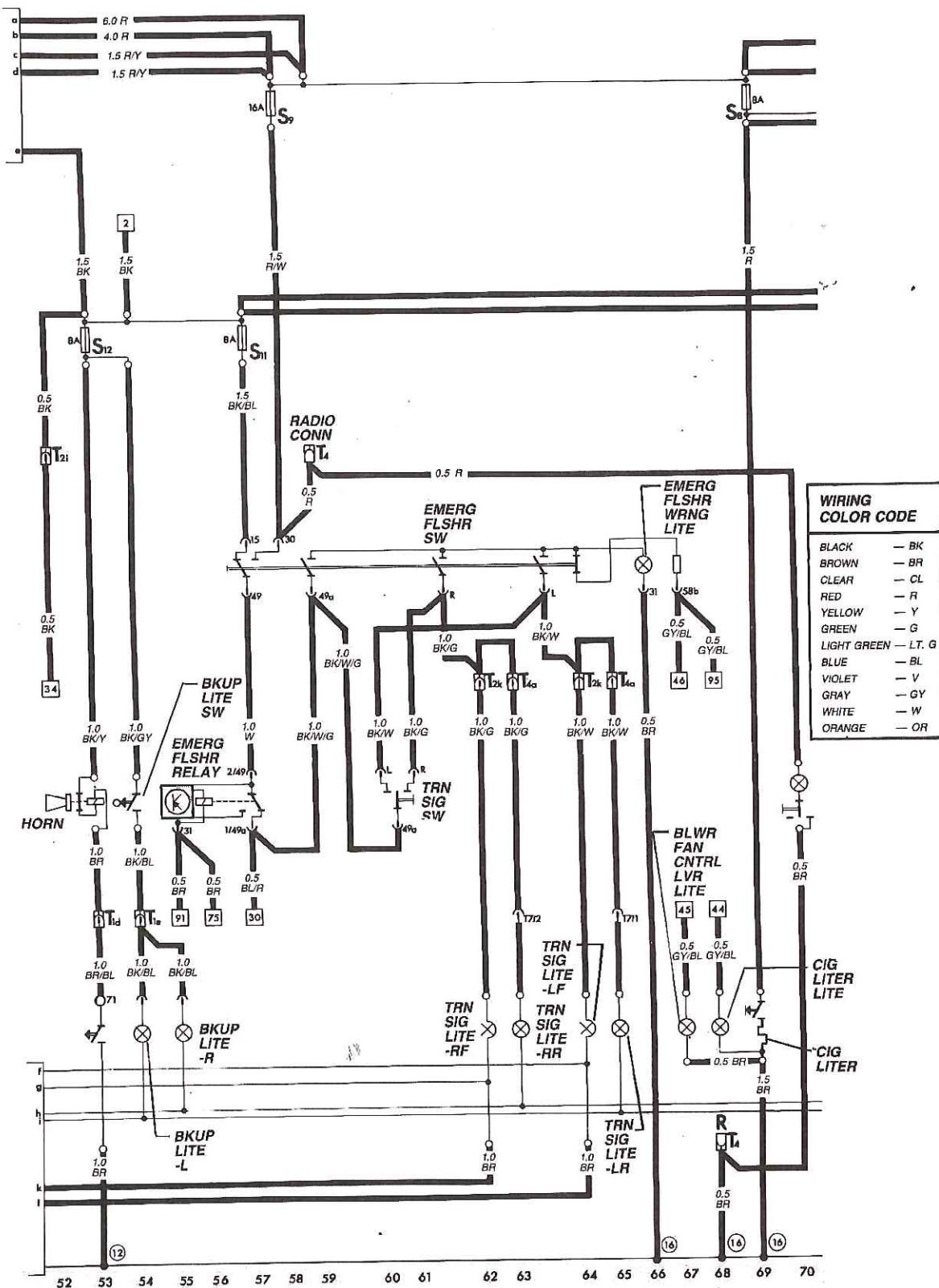


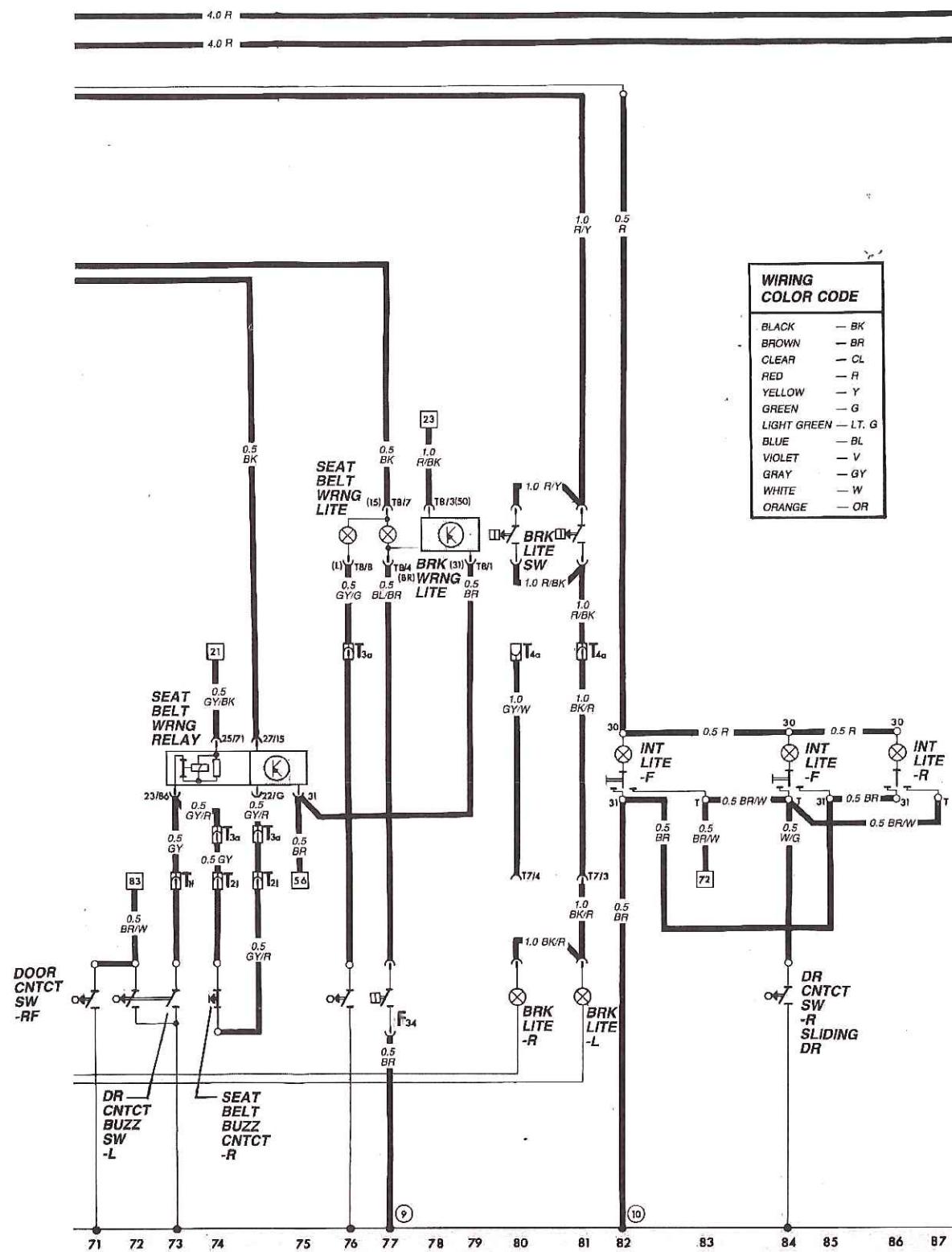
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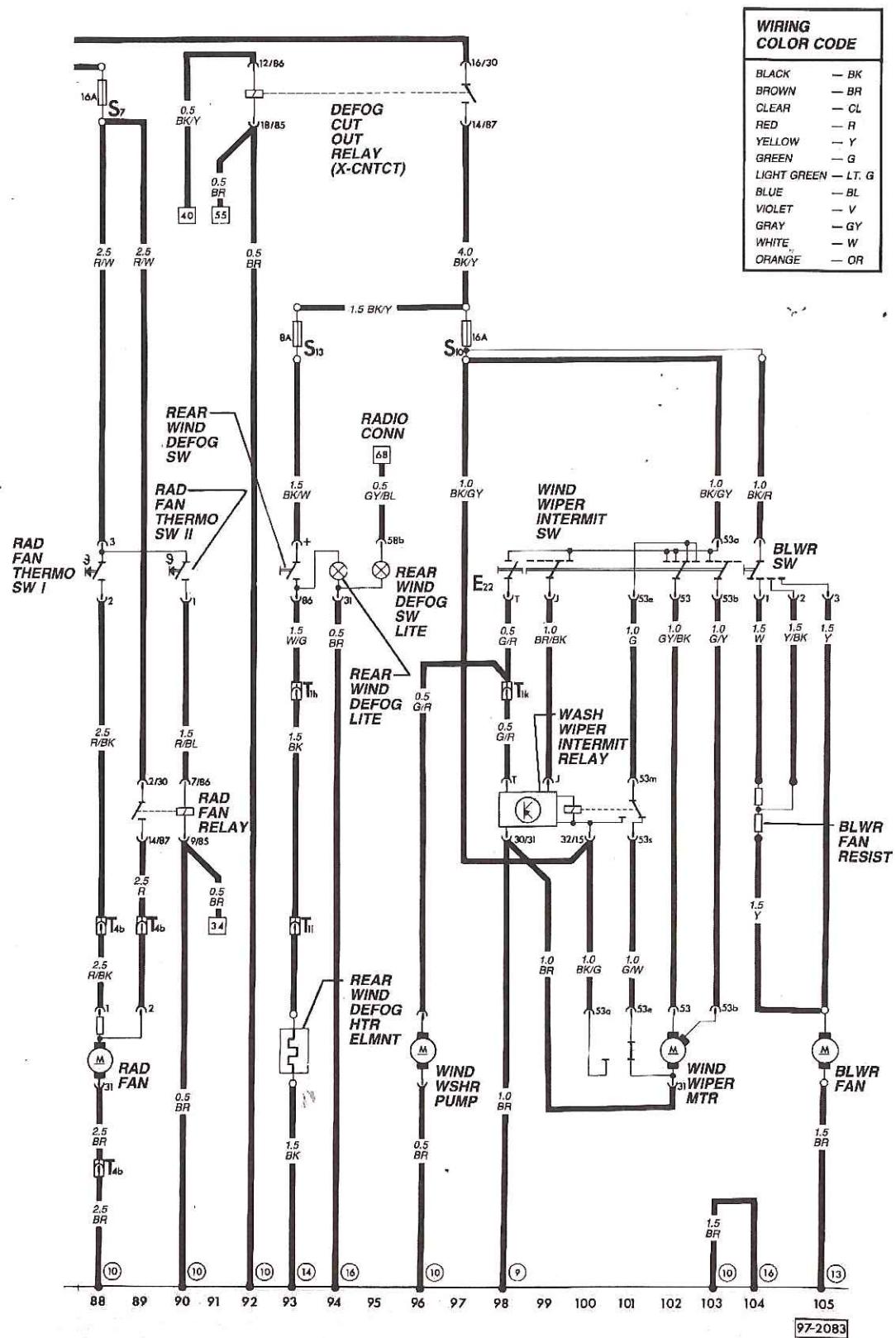


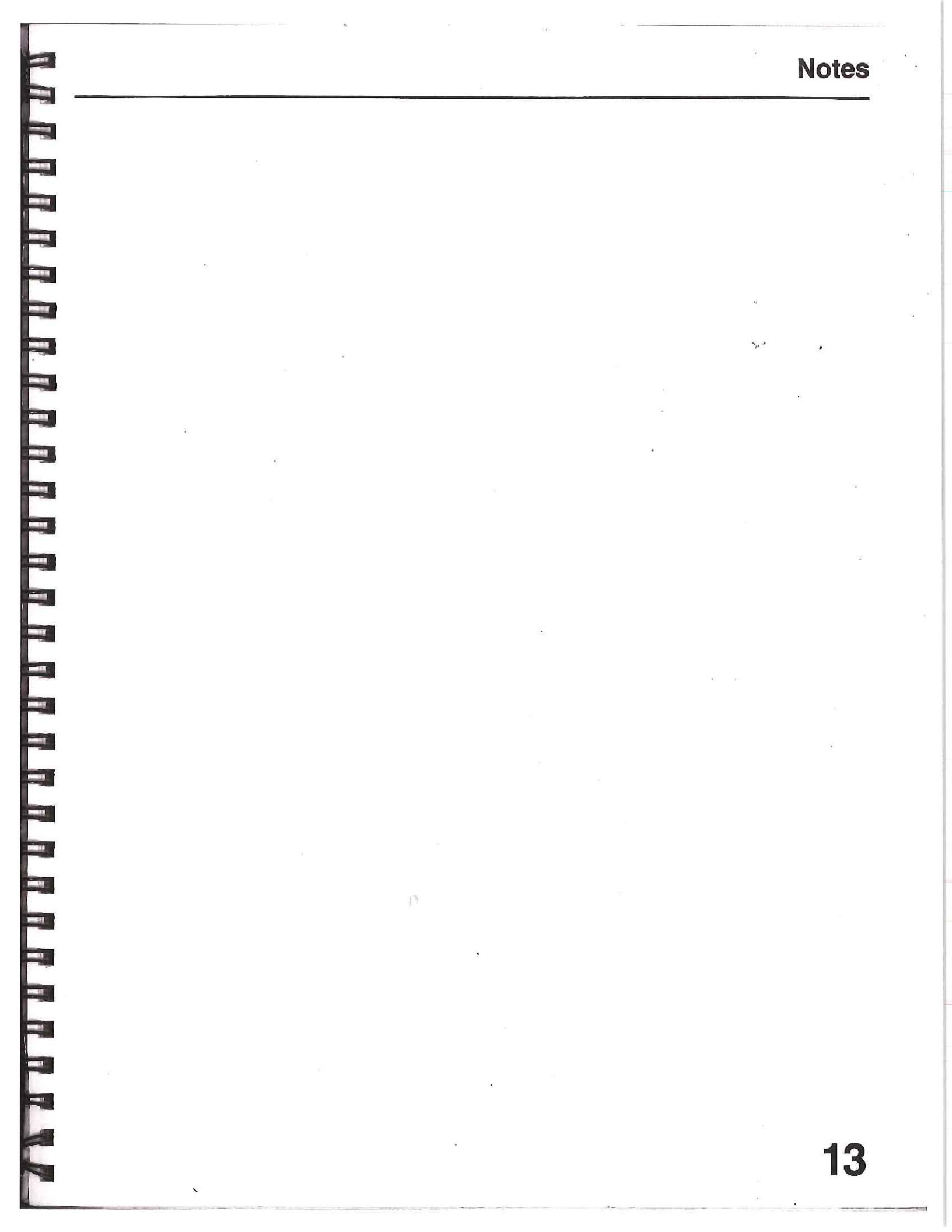
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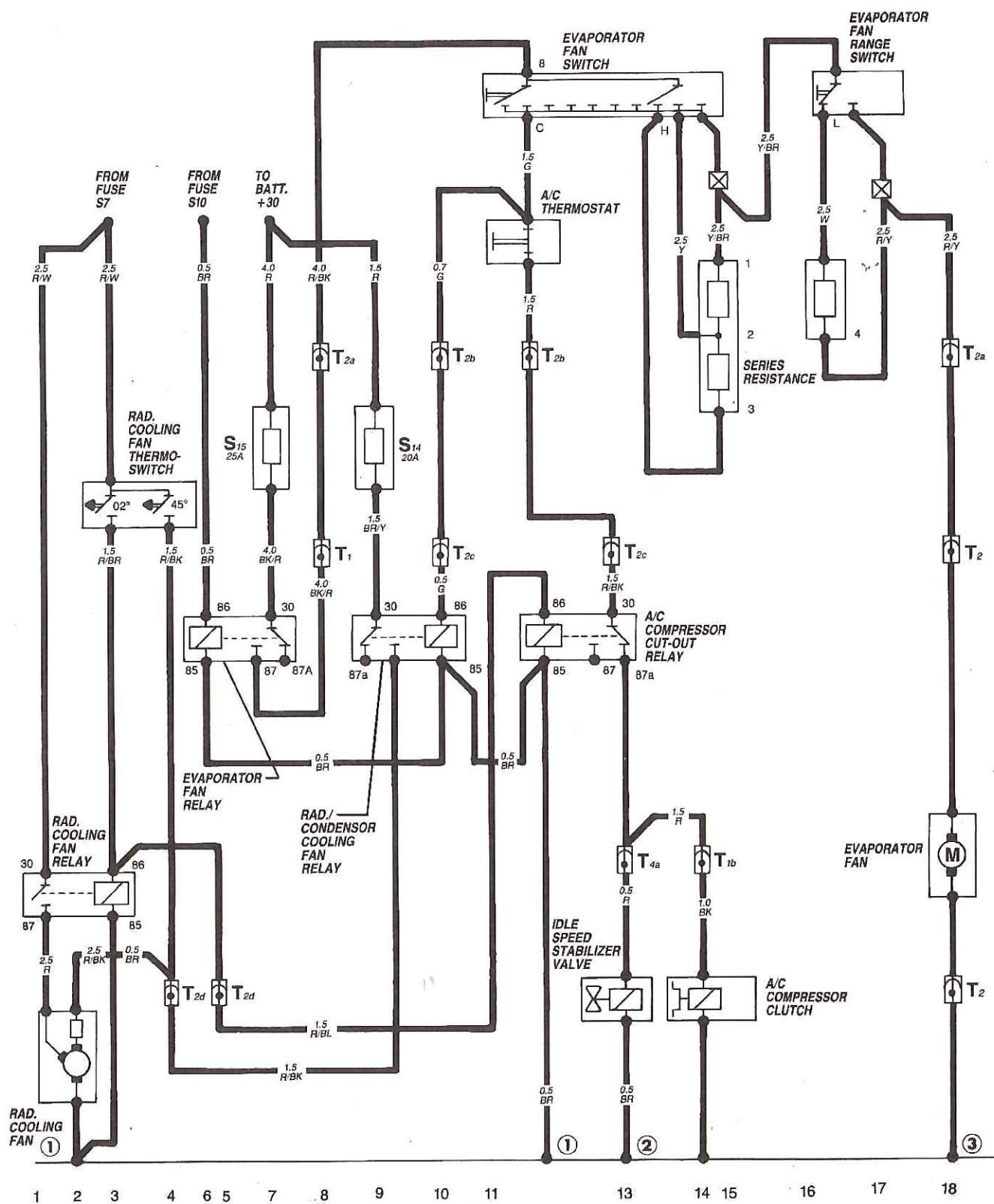




Notes

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Description	Current Track	Connectors
A/C compressor clutch	14	T1 — single, behind left 'B' pillar cover
A/C compressor cut-out relay	12-13	T1a — single, eng. comp., left
A/C thermostat	13	T1b — single, eng. comp., left
Evaporator fan	18	T2 — double, in evaporator housing
Evaporator fan range switch	16, 17	T2a — double, in air tunnel
Evaporator fan relay	3	T2b — double, in air tunnel
Evaporator fan switch	13-15	T2c — double, behind left 'B' pillar cover
Idle speed stabilizer valve	13	T2d — double, above fuse panel
Rad./condensor cool. fan relay	9, 10	
Rad. cooling fan	2	
Rad. cool. fan relay	1-3	
Rad. cool. fan thermoswitch	3, 4	
Ground Connections		
(1) — near fuse panel		
(2) — in engine compartment		
(3) — in evaporator housing (near left side)		



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Description	Current Track
Air recirculation blower	8
Combustion air blower	11
Condensor	14
Flame switch	12
Fuel pump	10
Fuel pump contact breaker	10
Glow plug	13
Heater contact breaker	12
Heater element	14
Heater ignition coil	12
Heater indicator lite	6
Heater relay	7-12
Main suppressor	8
Overheat switch	9
Safety switch	15, 16
Suppressor	12, 13
Temp. regulating switch	1-6
Temp. sensor	8
To load reduction relay	6

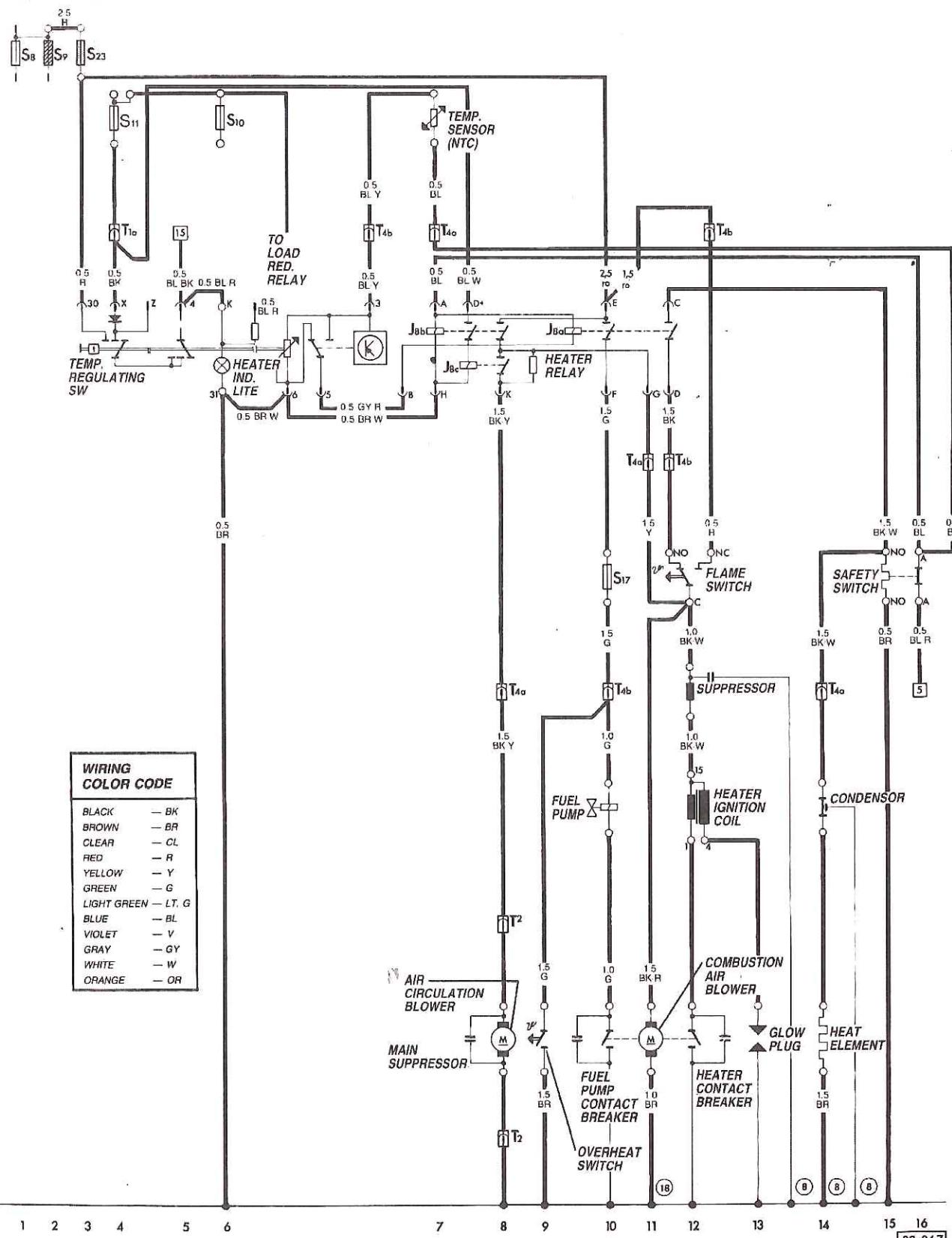
Wire Connectors

- T1a — single, under instrument panel
- T2 — double, on air recirc. blower
- T4a — four point, on heater control
- T4b — four point, on heater control

Ground Connections

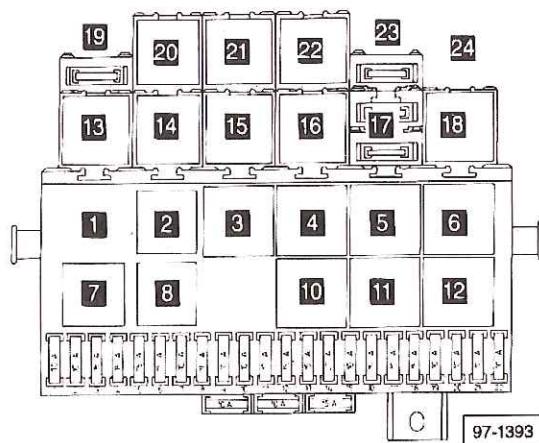
- ⑧ — bolt on heater control
- ⑯ — bolt on heater ignition coil

TO BATTERY + TERMINAL



82-267

Vanagon



Fuse arrangement

according to numbers on fuse panel as seen from left to right:

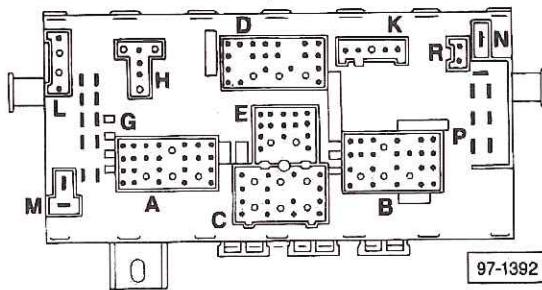
	Amp.
1 Radiator fan	30
2 Stop lights	10
3 Cigarette lighter, radio, clock, interior lights, central locking system	10
4 Emergency flasher system	15
5 Electric fuel pump	15
6 Vacant	
7 Tail, parking and side marker lights, left	10
8 Tail, parking and side marker lights, right	10
9 High beam right, high beam indicator light	10
10 High beam left	10
11 Wind. wipers and washer	15
12 Heated seats, outside rear view mirror adjustment	15
13 Rear window defogger, heated rear view mirror	15
14 Fresh air fan, glove compartment light	20
15 Back-up lights, shift console light (Auto. Transmission)	10
16 Horn (single tone)	15
17 Vacant	
18 Dual horn, coolant level and temp. warning light	10
19 Turn signals; brake warning light	10
20 License plate lights	10
21 Low beam left	10
22 Low beam right	10

Separate fuses above fuse panel

Power windows	30
A/C	30

Fuse/Relay Panel

- [3] — coolant level control unit
- [5] — rad. cool. fan relay, 2nd stage
- [8] — load reduction relay
- [10] — intermitt. wash/wiper relay
- [11] — rear window wash/wiper relay
- [12] — emerg. flash/turn sig. relay



Connections and plugs on fuse/relay panel

- A — multi-point connector (blue) for instrument panel wiring harness
- B — multi-point connector (red) for instrument panel wiring harness
- C — multi-point connector (yellow) for front wiring harness
- D — multi-point connector (white) for windshield wiper and main wiring harness
- E — multi-point connector (black) for main wiring harness
- G — single connector
- H — multi-point connector (brown) to connector for rad. cool fan relay, 2nd stage
- K — multi-point connector (colorless) to radiator coolant low-level control unit
- L — multi-point connector (gray) for horns
- M — open position
- N — single connector
- P — single connector (terminal 30)
- R — open position

Description	Current track	Description	Current track	Wire Connectors
Air flow sensor potentiometer	22-24	Injector, cyl. 1	27	T1a — single, under instrument panel
Alternator	5,6	Injector, cyl. 2	28	T1c — single, eng. compart., left
Alternator warning lite	51	Injector, cyl. 3	29	T1d — single, in wire distributor box
Back-up lite switch	127	Injector, cyl. 4	30	T1e — single, eng. compart., left
Back-up lite, left	127	Instrument panel lite	58-60	T1f — single, under instrument panel
Back-up lite, right	126	Instrument panel lite dimmer		T1g — single, under instrument panel
Battery	1	switch	94	T1h — single, eng. compart., left
Brake and parking brake indicator lite	134	Interior lite, front	77,78	T2a — double, eng. compart., left
Brake fluid level warning contact	136	Interior lite, rear	82,83	T2b — double, eng. compart., left
Brake lite switch	122,123	Interior lite, right	80,81	T2c — double, under inst. panel, left
Brake lite, left	125	License plate lite	95,96	T2d — double, behind sunvisor attaching screws, right
Brake lite, right	124	Lite switch	85,94	T2e — double, in rear decklid
CAT elapsed mileage counter	45,46	Load reduction relay	86-88	T2f — double, behind right 'c' pillar cover
Cigarette lighter	72	Make-up mirror lite	76	T2g — double, under instrument panel
Cigarette lighter lite	73	Map/reading lite, right front	75	T2m — double, near fuse/relay panel
Clock lite	61	OXS elapsed mileage indicator	52	T2x — double, eng. compart., middle
Coolant low level control unit	68,69	Oxygen sensor	25,26	
Coolant low level warning switch	68	Parking brake warning lite switch	134	T3 — three-point, on alternator
Coolant overheat warning lite	67	Parking lite, left	100	T3a — three-point, under instrument panel
Coolant temperature gauge	65	Parking lite, right	106	T3b — three-point, behind front air duct
Coolant temperature sending unit	70	Power steering pressure switch	36,37	T3c — three-point, under instrument panel
Digifant control unit	16-27	Radiator cooling fan	143	T3d — three-point, under right 'c' pillar cover
Digifant control unit relay	32,34	Radiator cooling fan relay (2nd stage)	147	T4 — four-point, under instrument panel
Digital clock	53	Radiator cooling fan thermostwitch	143,144	T4a — four point, under rear seat bench
Door contact switch, left front	77,78	Rear window defogger indicator lite	38	T7/ — seven-point, in wire distributor box
Door contact switch, right front	81	Rear window defogger switch	139	T7a/ — seven-point, in wire distributor box
Emergency flasher relay	111	Rear window defogger switch lite	137	T14/ — fourteen-point, on instrument cluster
Emergency flasher switch	110,117	Rear window washer pump	157	
Emergency flasher warning lite	117	Rear window wiper motor	159,160	
Engine oil pressure control unit	55,56	Rear window wiper/washer relay	158,159	
Engine oil pressure switch (0.3 bar)	48	Safety belt switch, right	131,132	
Engine oil pressure switch (1.8 bar)	47	Seat belt warning lite	133	
Engine oil pressure warning lite	57	Seat belt warning relay	130-133	
Fresh air blower series resistance	142	Side marker lites, rear	102,104	
Fresh air control lever lite	140	Spark plug connectors	13-15	
Fresh air fan	141	Spark plugs	13-15	
Fresh air fan switch	141,142	Starter	3,4	
Fuel gauge	64	T.D.C. sensor	43,44	
Fuel gauge sending unit	71	Tachometer	54	
Fuel pump	31	Tail lite, left	101	
Fuel pump relay	30,31	Tail lite, right	105	
Hall generator	17-19	Temperature sensor II	21	
Headlite dimmer/flasher switch	102,103	Throttle valve switch (enrichment)	20	
Headlite high beam warning lite	63	Turn signal indicator lite	62	
Headlite, left	97,99	Turn signal lite, left front	119	
Headlite, right	107,108	Turn signal lite, left rear	118	
Heater blower series resistance	149	Turn signal lite, right front	121	
Heater fan switch illumination lite	147	Turn signal lite, right rear	120	
Heating element (crankcase ventilation)	12	Turn signal switch	113,114	
High-beam headlite, left	98	Voltage regulator	5,6	
High-beam headlite, right	109	Voltage stabilizer	64	
Horn button	128			
Horns	129	Warm air blower	148	
Idle speed stabilizer valve	40,41	Warm air blower switch	148,149	
Idle stabilizer control unit	36,42	Washer/wiper intermittent relay	153-155	
Ignition coil	14	Windshield washer pump	156	
Ignition distributor	13-15	Windshield wiper motor	150,151	
Ignition/starter switch	8-11	Windshield-wiper intermittent switch	152-155	

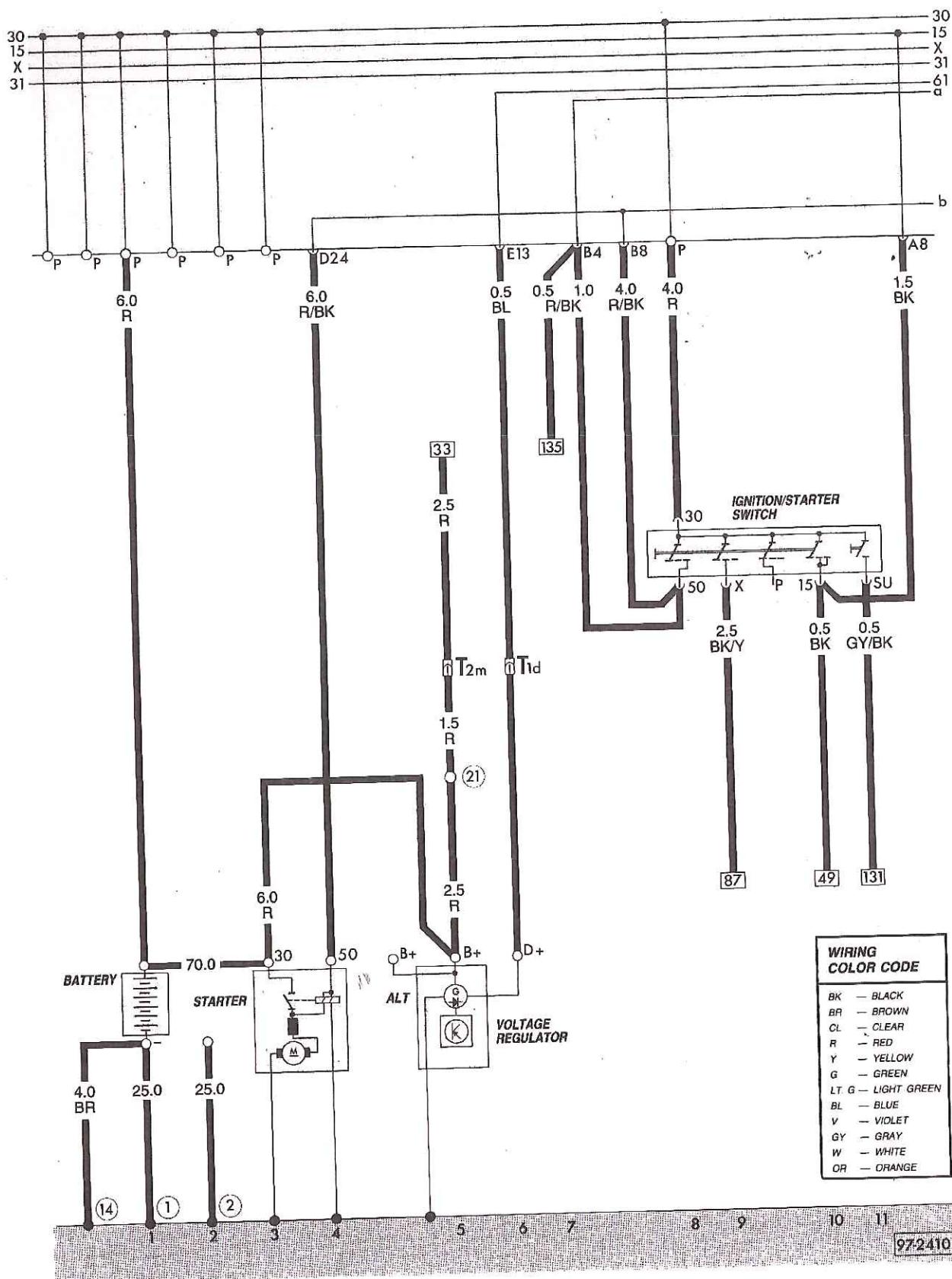
Ground Connections

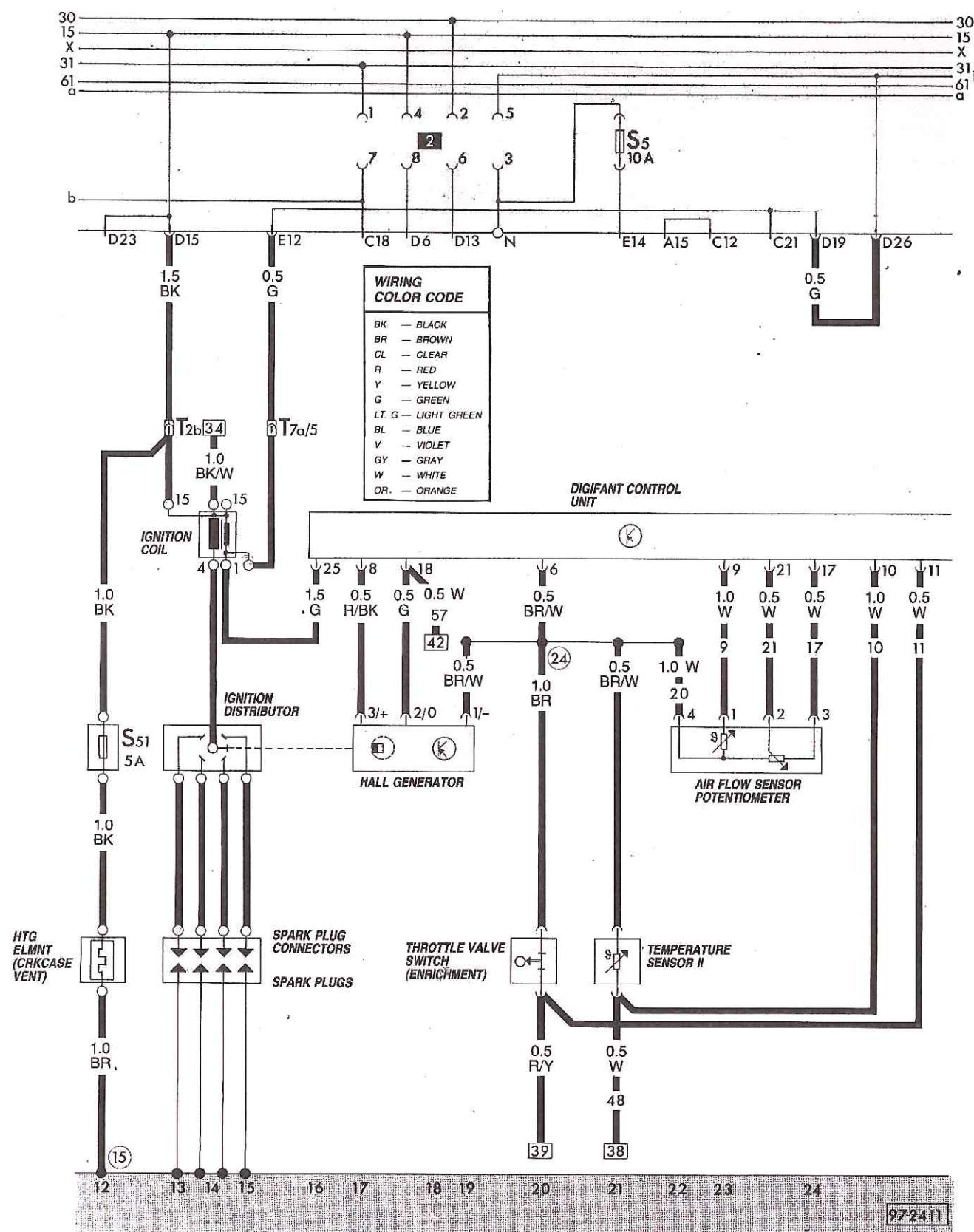
- (1) — battery to body
- (2) — from body to transmission
- (7) — on steering rack
- (10) — near fuse/relay panel
- (11) — in rear decklid
- (12) — on left front crossmember
- (13) — near rear washer fluid bottle
- (14) — under rear seat bench
- (15) — under ignition coil
- (17) — under rear seat bench
- (18) — near fuel pump
- (19) — on cylinder head
- (20) — in instrument panel wiring harness
- (24) — near digifant wiring harness

Plus Connections

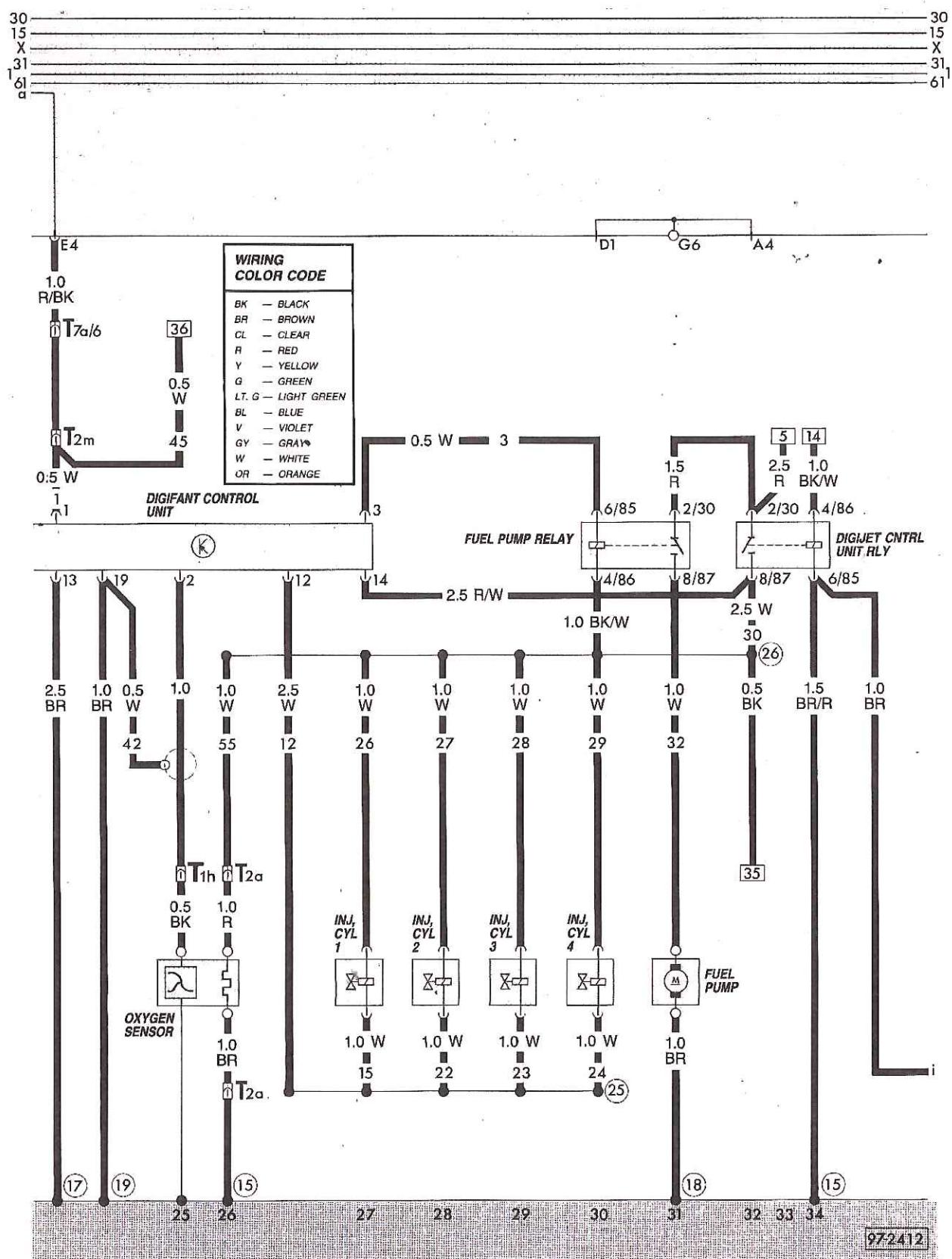
- (21) — terminal 30, in wire distributor box
- (22) — terminal 58b, in instrument panel wiring harness
- (26) — in digifant wiring harness

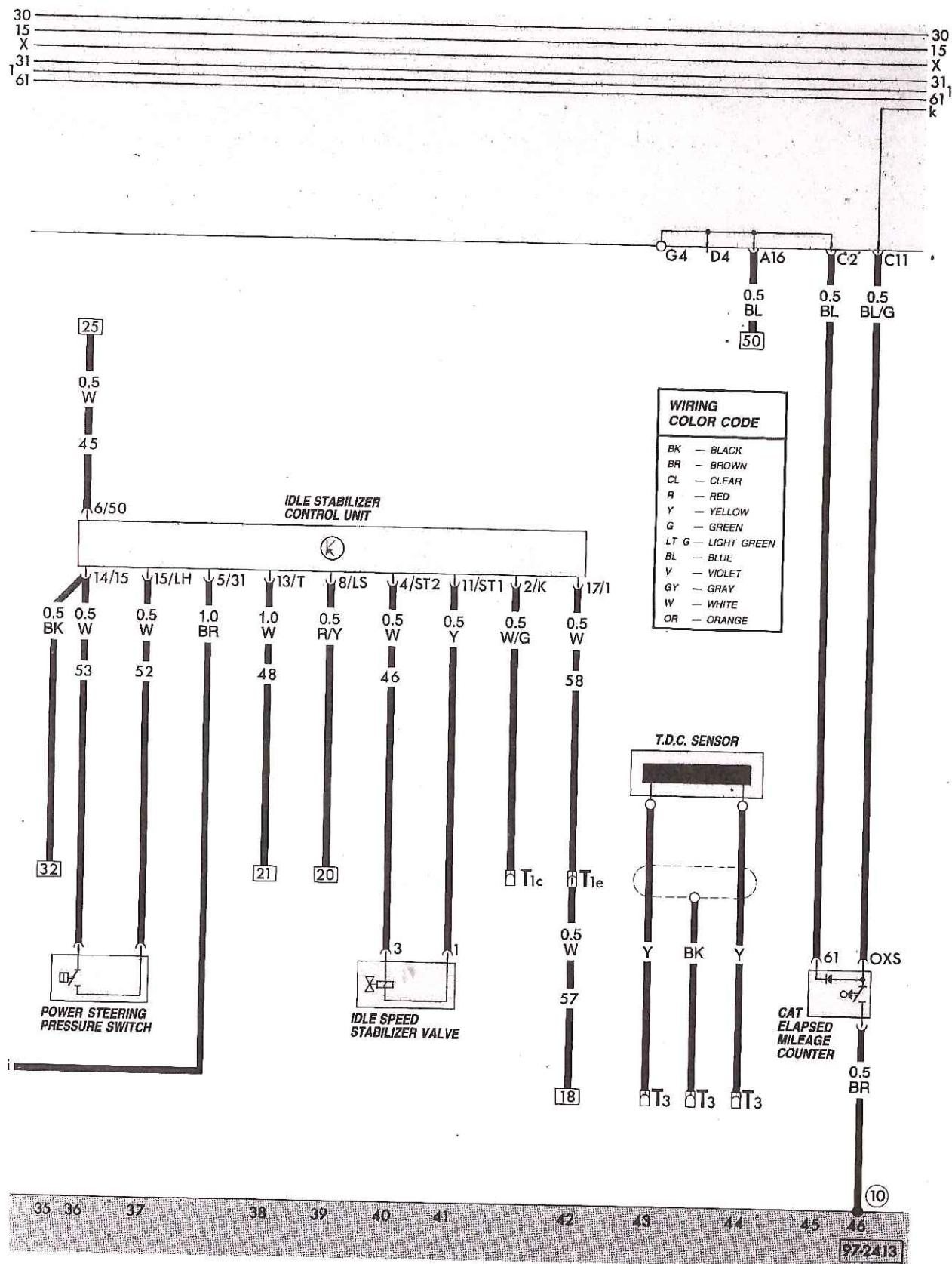
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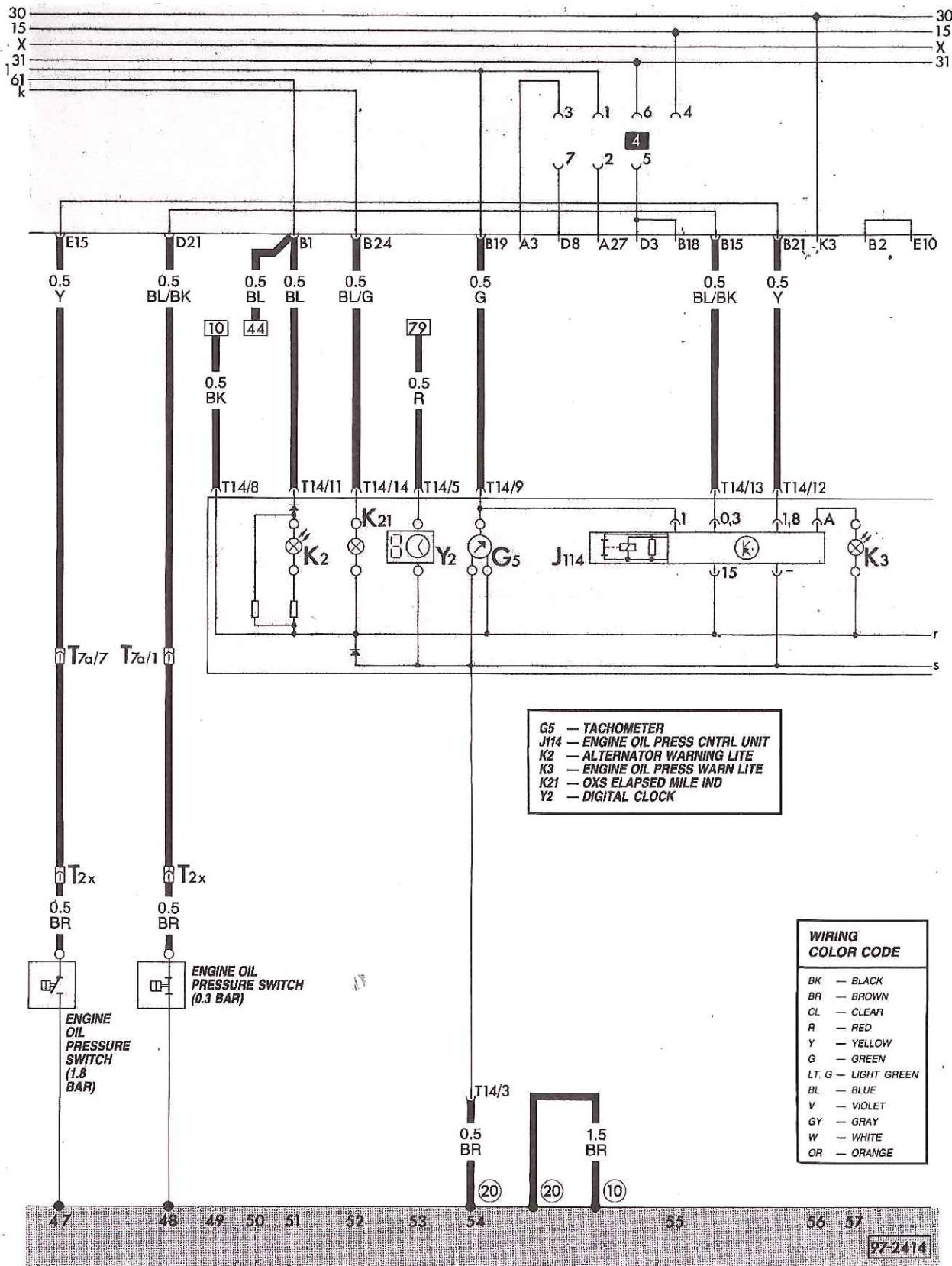


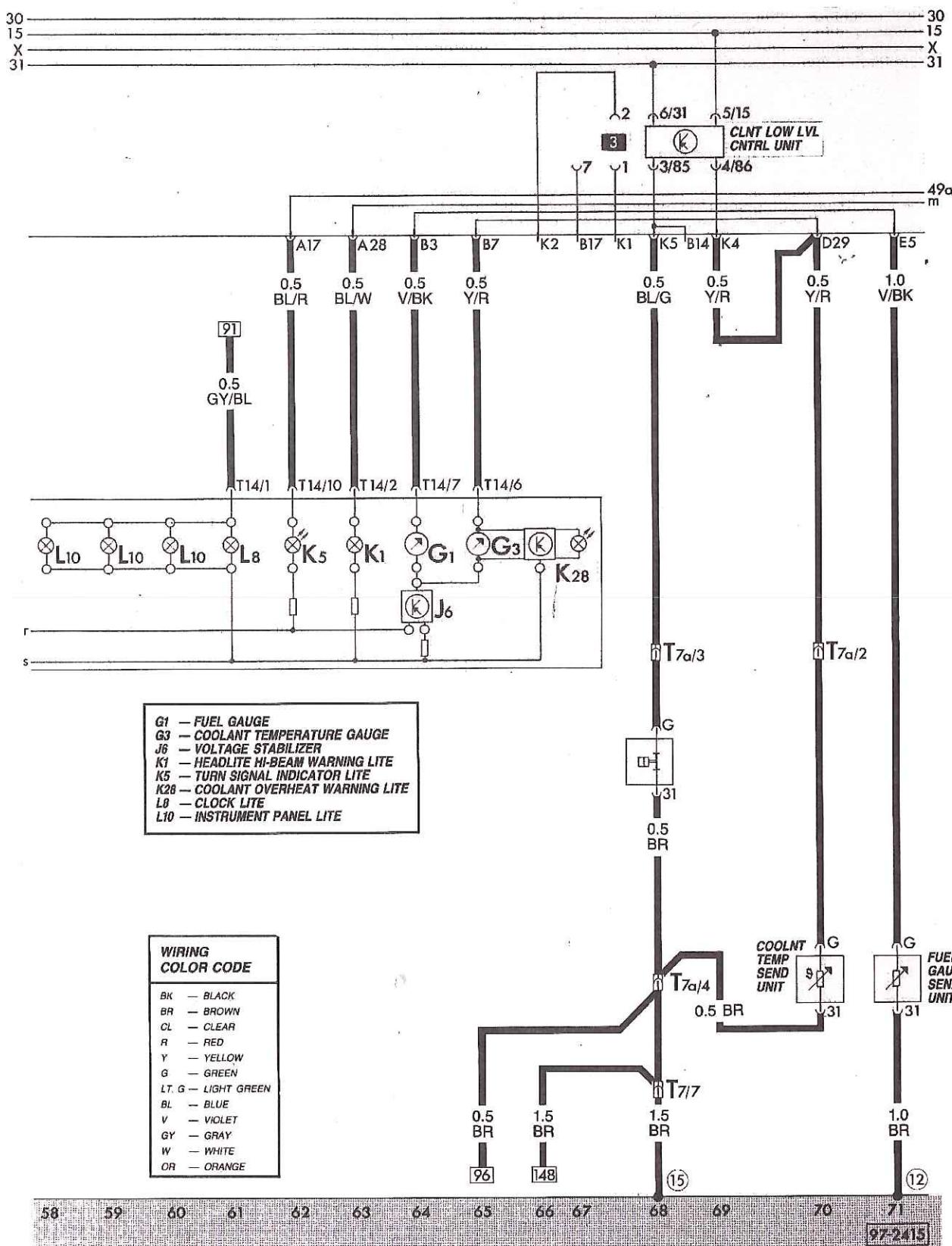
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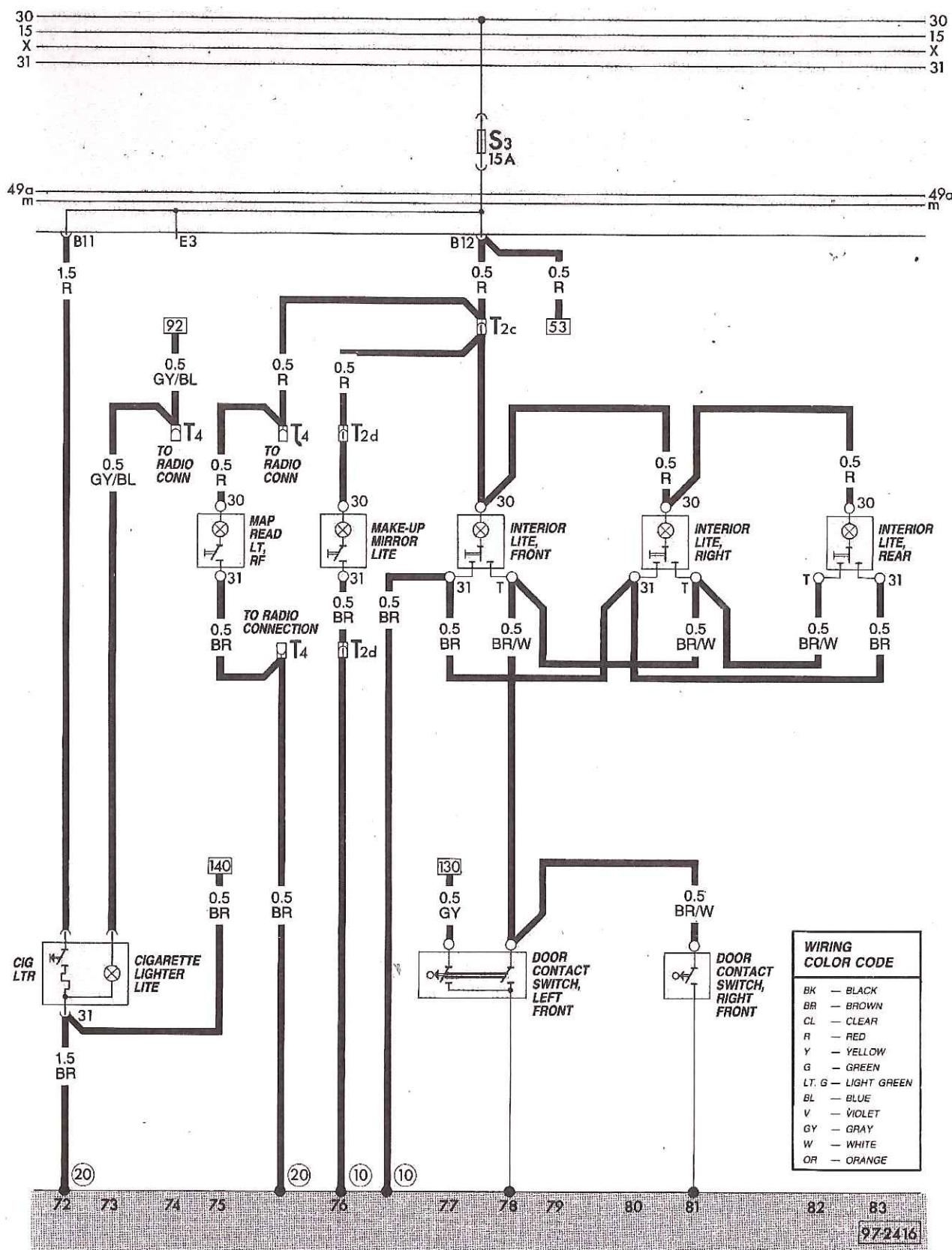


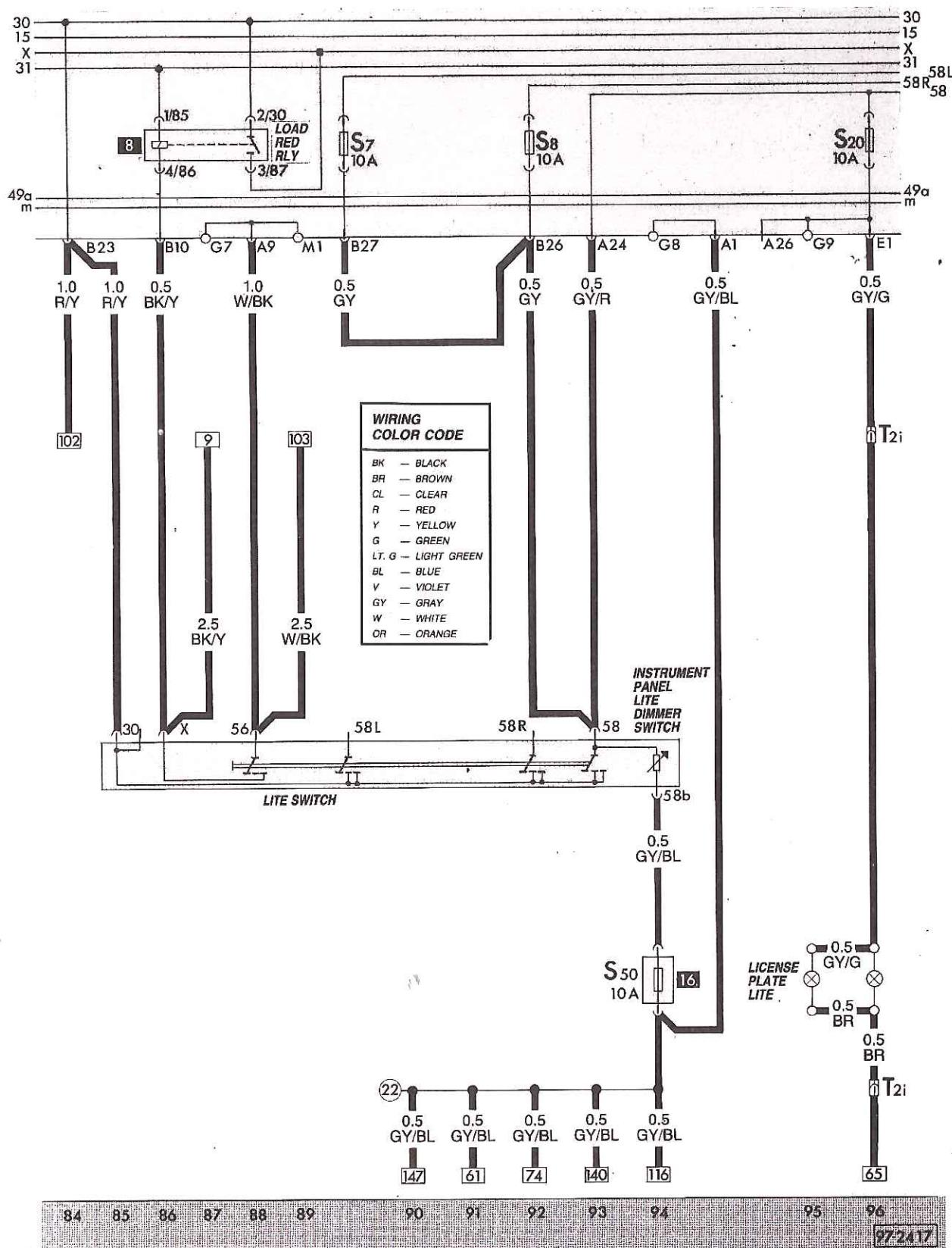
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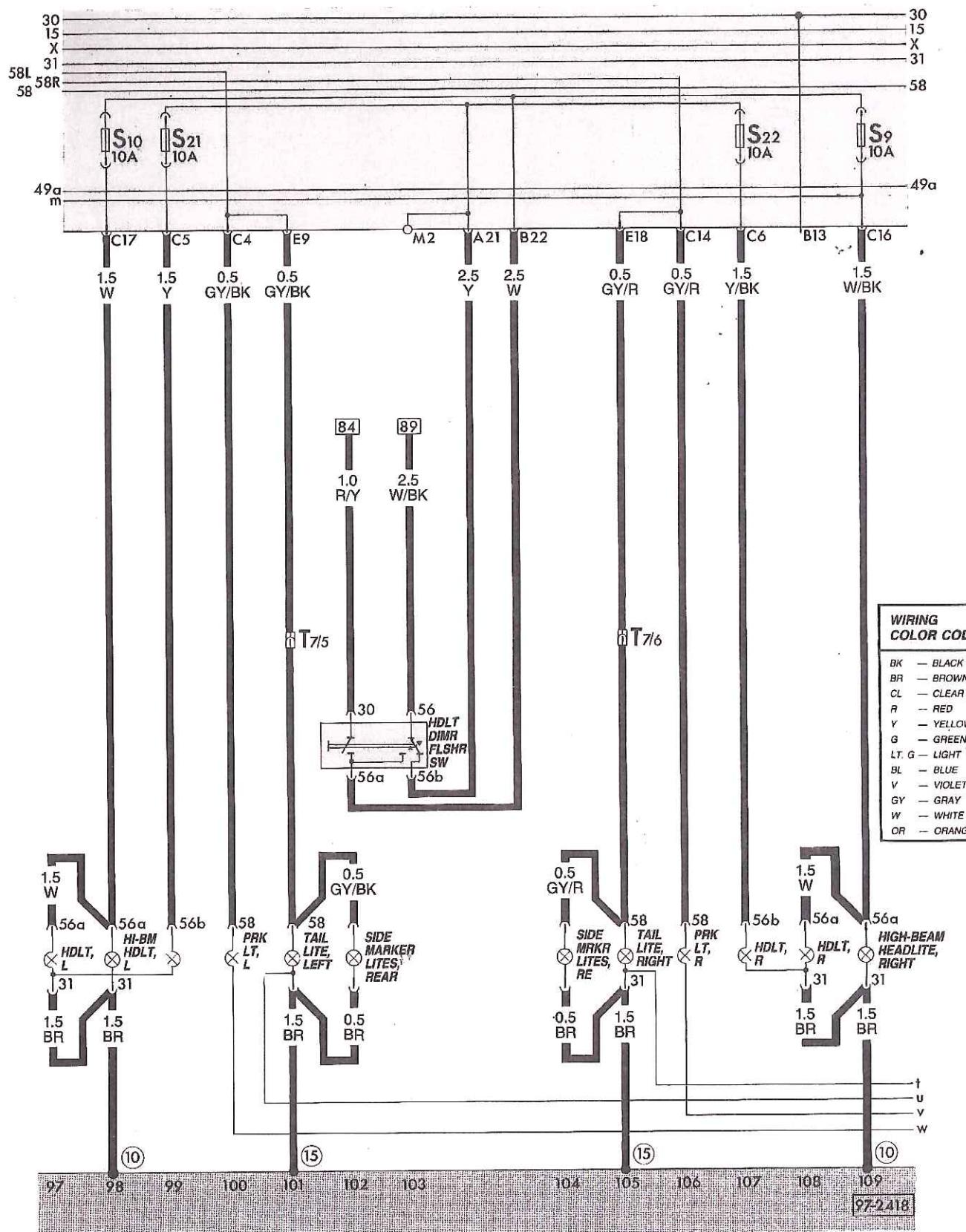


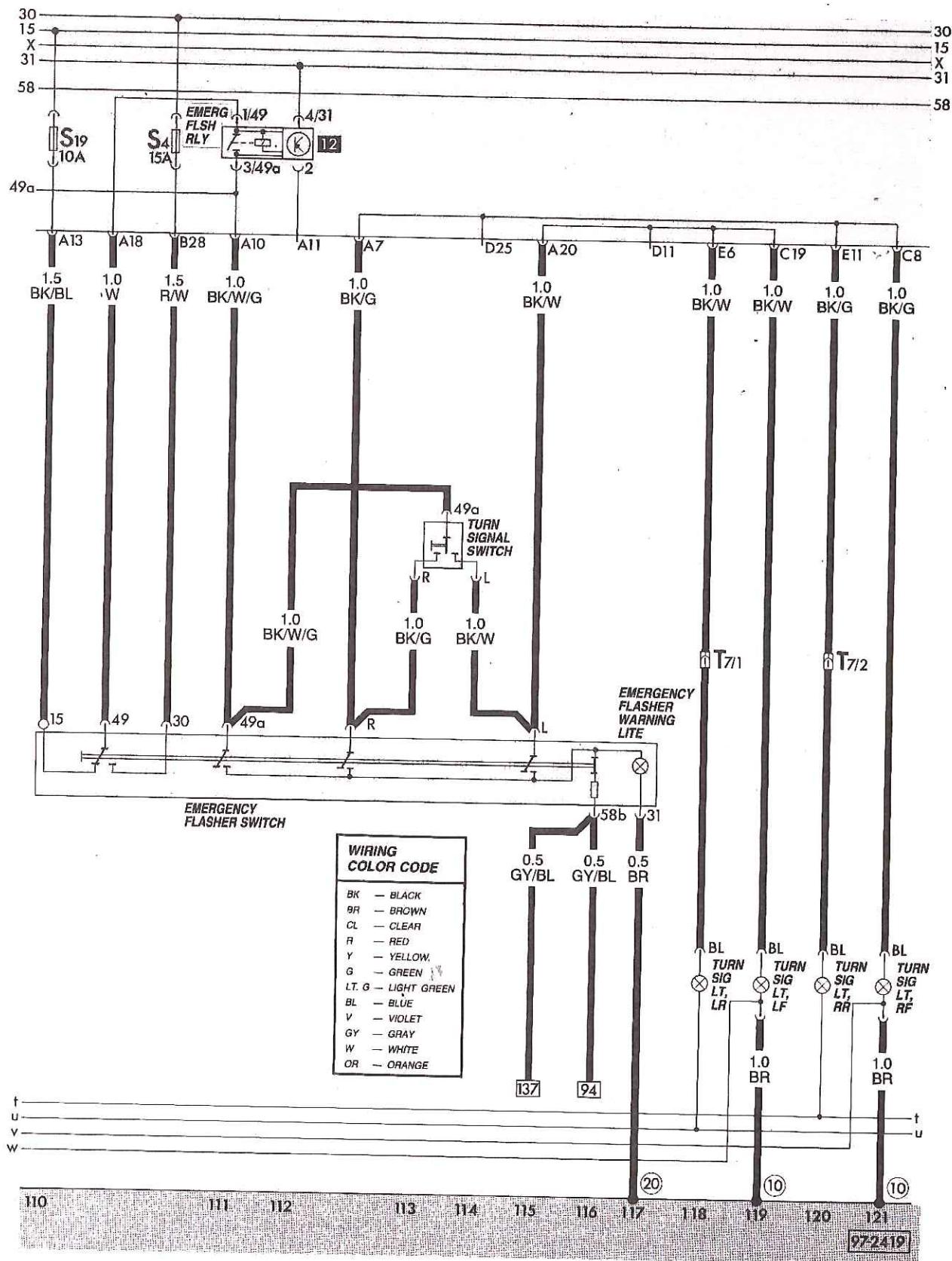
Vanagon



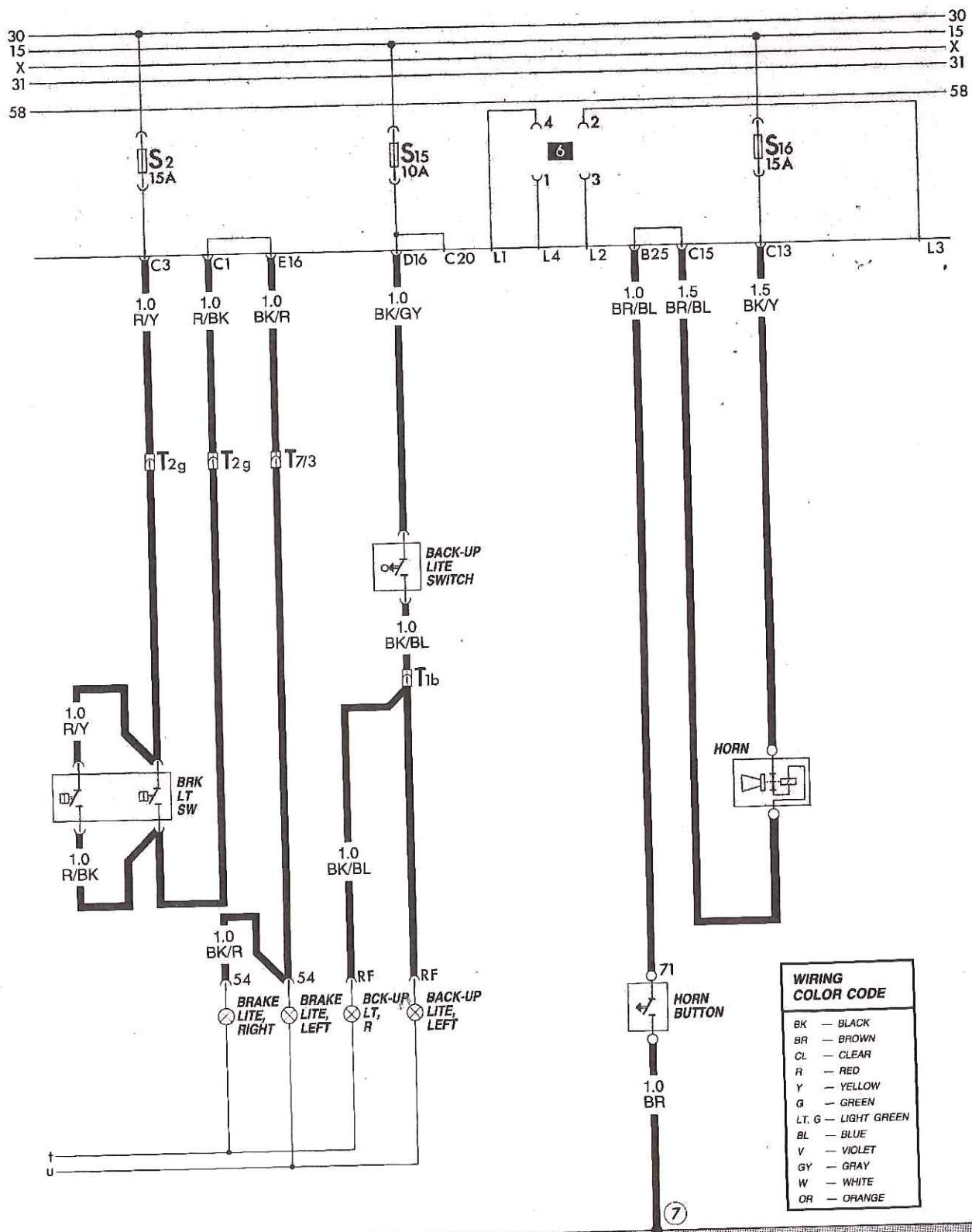


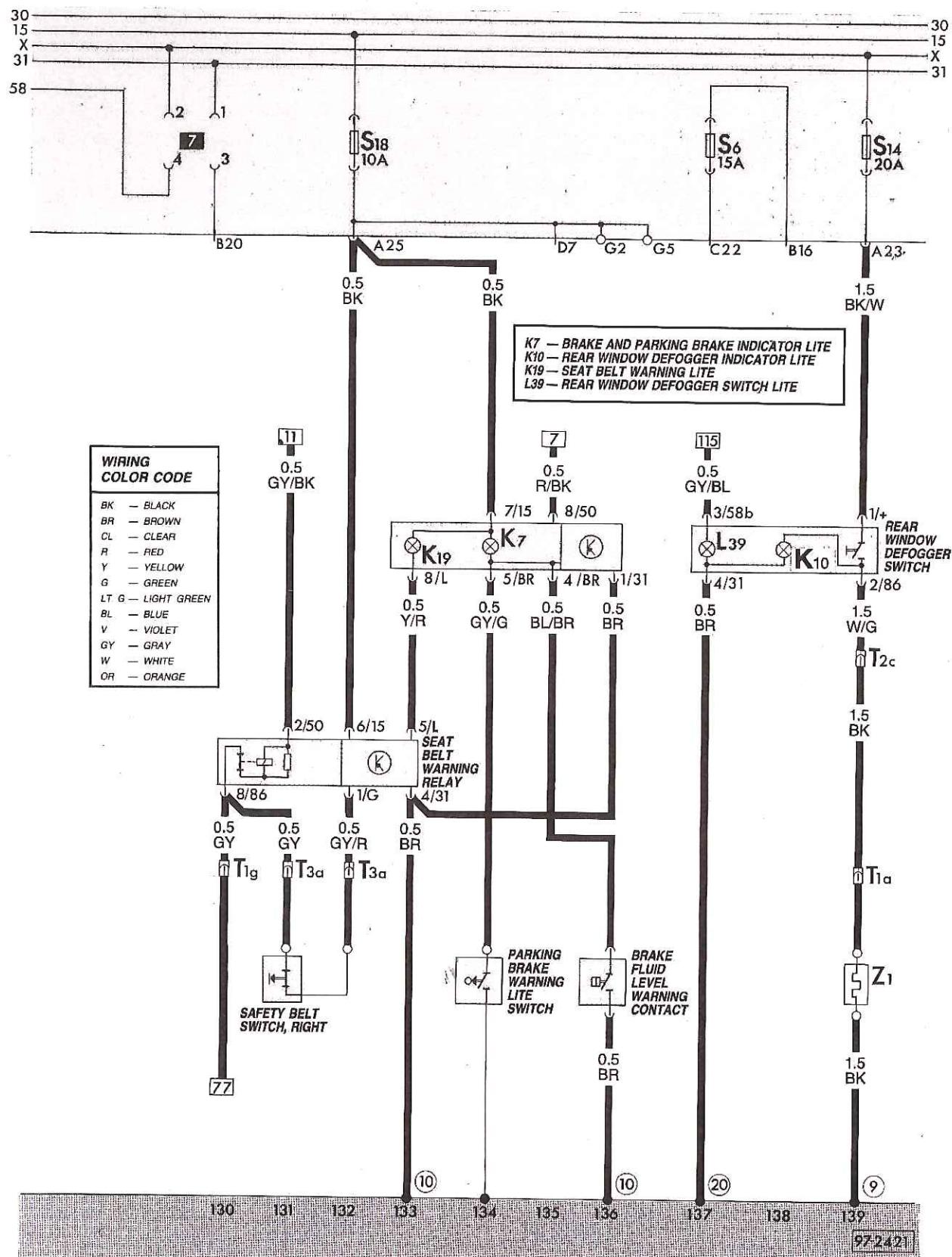
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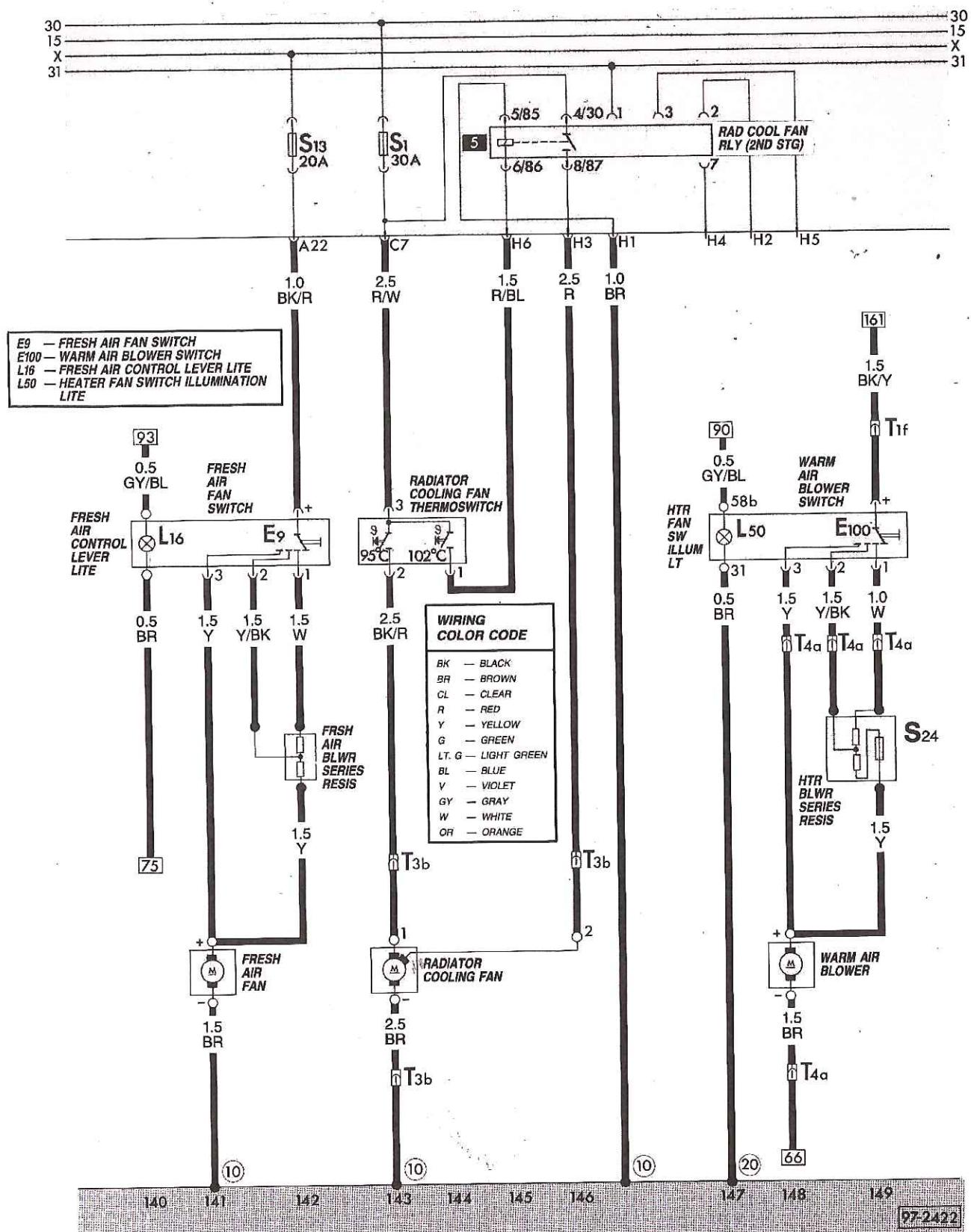


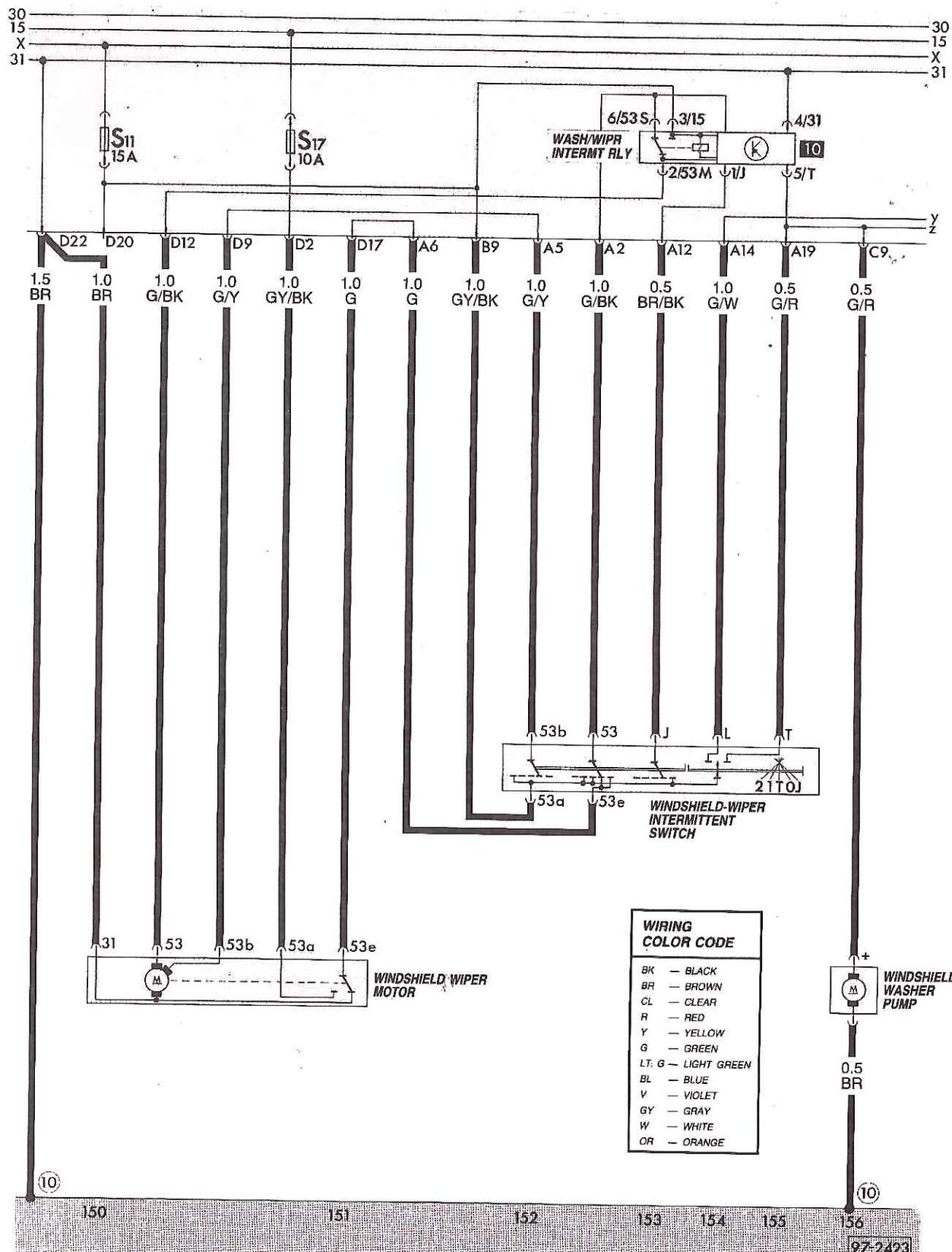
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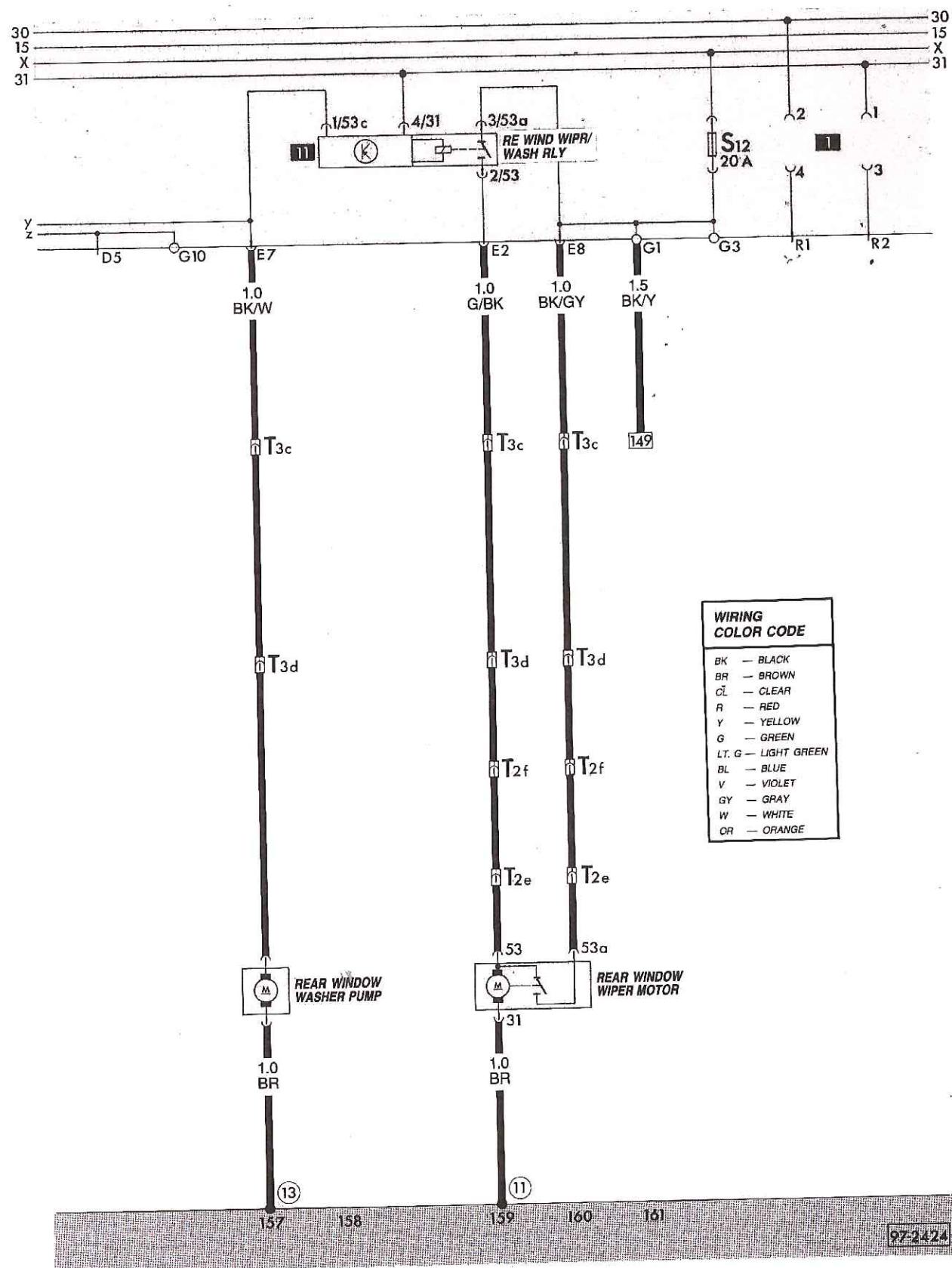


Vanagon





Vanagon



Notes

Vanagon

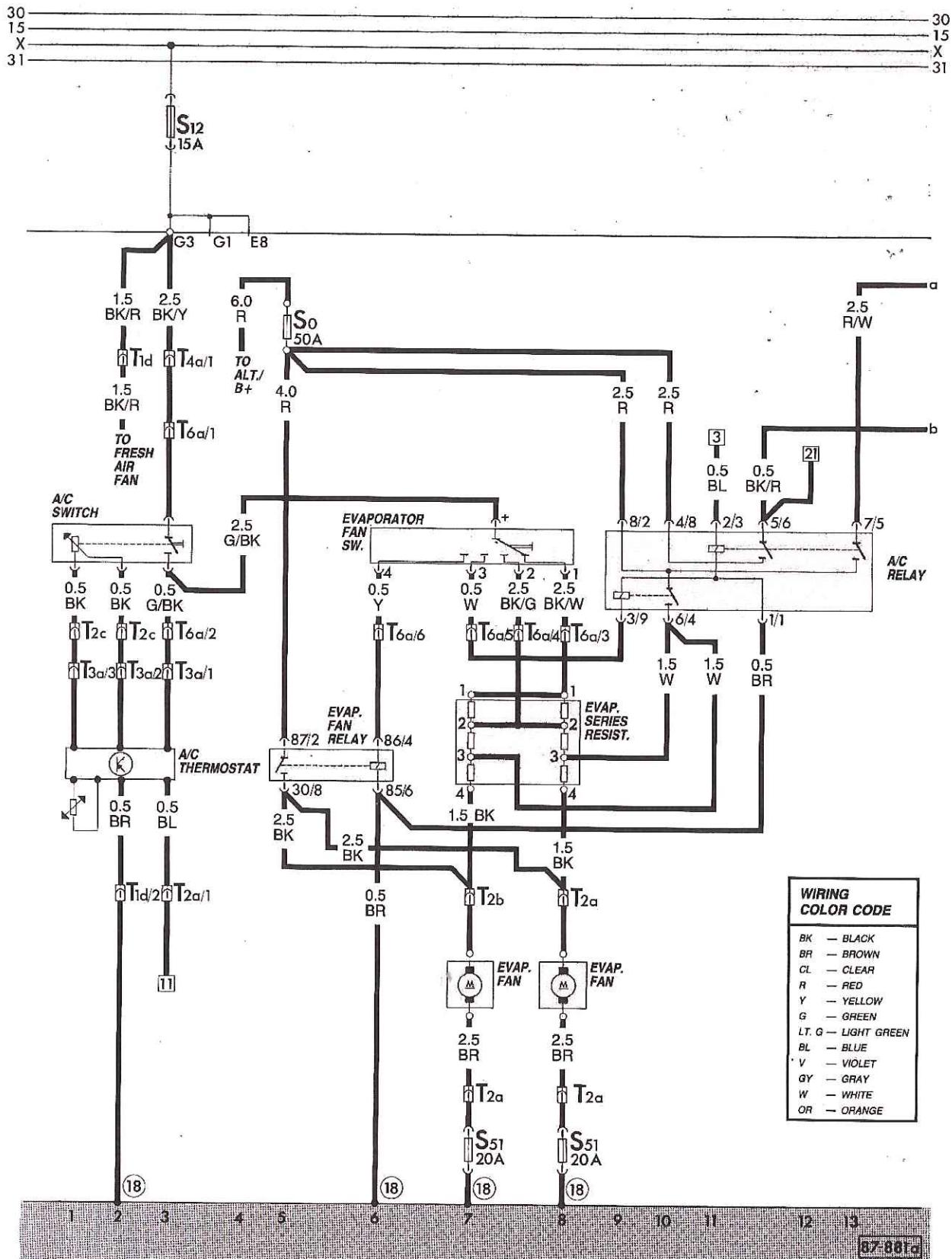
Description	Current Track
A/C compress. clutch	15
A/C compress. clutch relay	15-17
A/C refriger. high press. sw.	14
A/C refriger. low press. sw.	15
A/C switch	1-3
A/C thermostat	1-3
Ambient air temp. sw.	15
Evap. fan	7-8
Evap. fan sw.	6-8
Evap. fan relay	5-6
Evap. series resistance	7-8
Rad. cool fan	20
Rad. cool fan relay 2 nd stage	21-23
Rad. cool fan relay 3 rd stage	18-20
Rad. cool fan resistance	22
Rad. cool fan thermoswitches	18-20

Wire Connectors

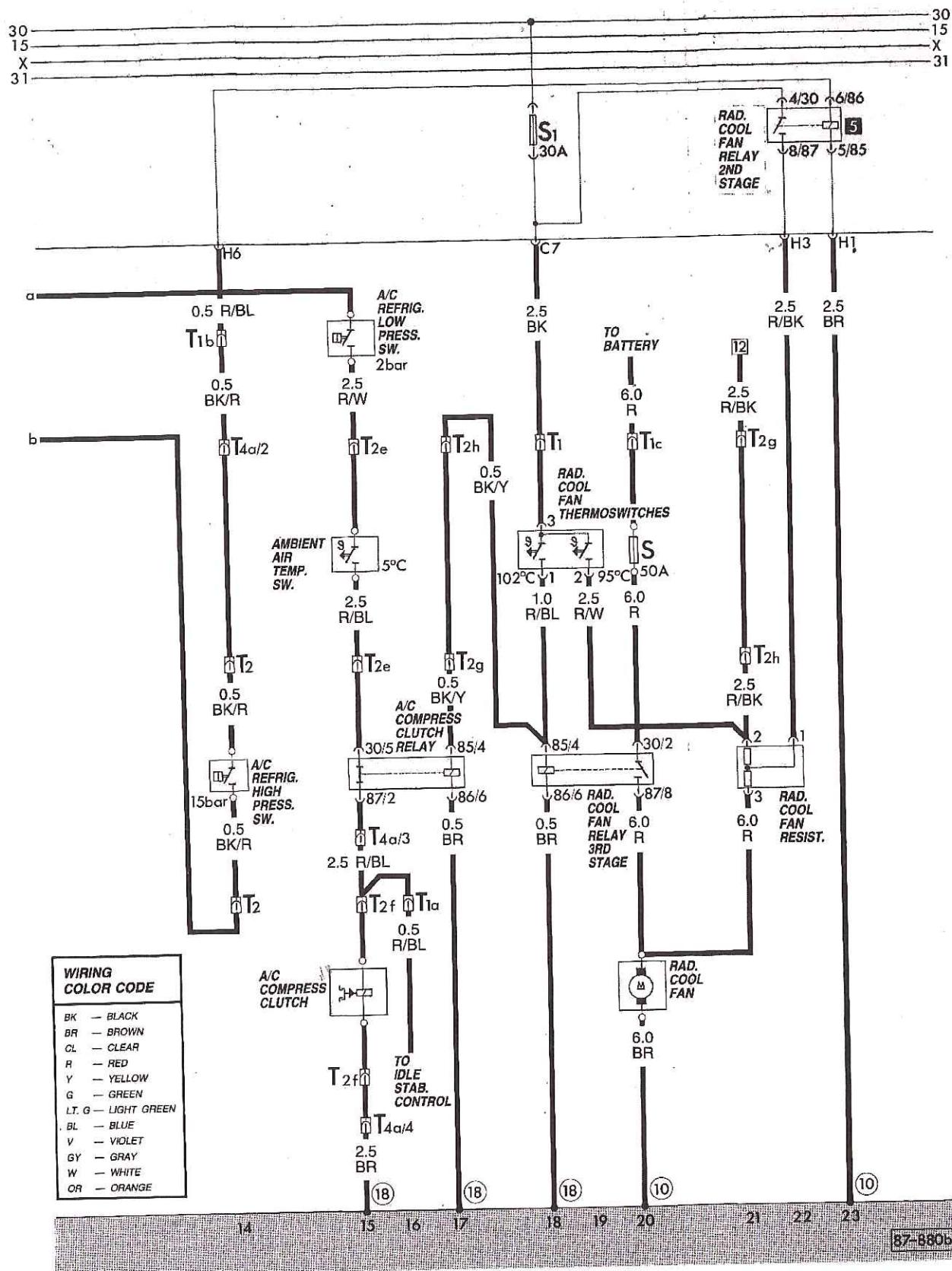
T1 — single, behind instrument panel
T1a — single, in engine compartment
T1b — single, behind instrument panel
T1c — single, behind instrument panel
T1d — single, behind instrument panel
T2 — double, left rear C-pillar
T2a — double, left rear C-pillar
T2b — double, on evaporator
T2c — double, left rear C-pillar
T2e — double, left rear C-pillar
T2f — double, at A/C compress. clutch
T2g — double, left rear C-pillar
T2h — double, left rear C-pillar
T3a — three-point, left rear C-pillar
T4a — four-point, in air duct
T6a — six-point, in left rear C-pillar

Ground Connections

- (10) — near fuse/relay panel
- (18) — near left rear C-pillar



Vanagon



Notes

Vanagon

Description	Current Track
Auto trans. console lites	1-2
Back-up lite, left	3
Back-up lite, right	5
Brake lite, left	2-3
Brake lite, right	5-6
Neutral safety/back-up lite sw.	2-5
Side marker lite, LR	1
Side marker lite, RR	8
Tail lite, left	2
Tail lite, right	7
Turn sig., LR	2-3
Turn sig., RR	6

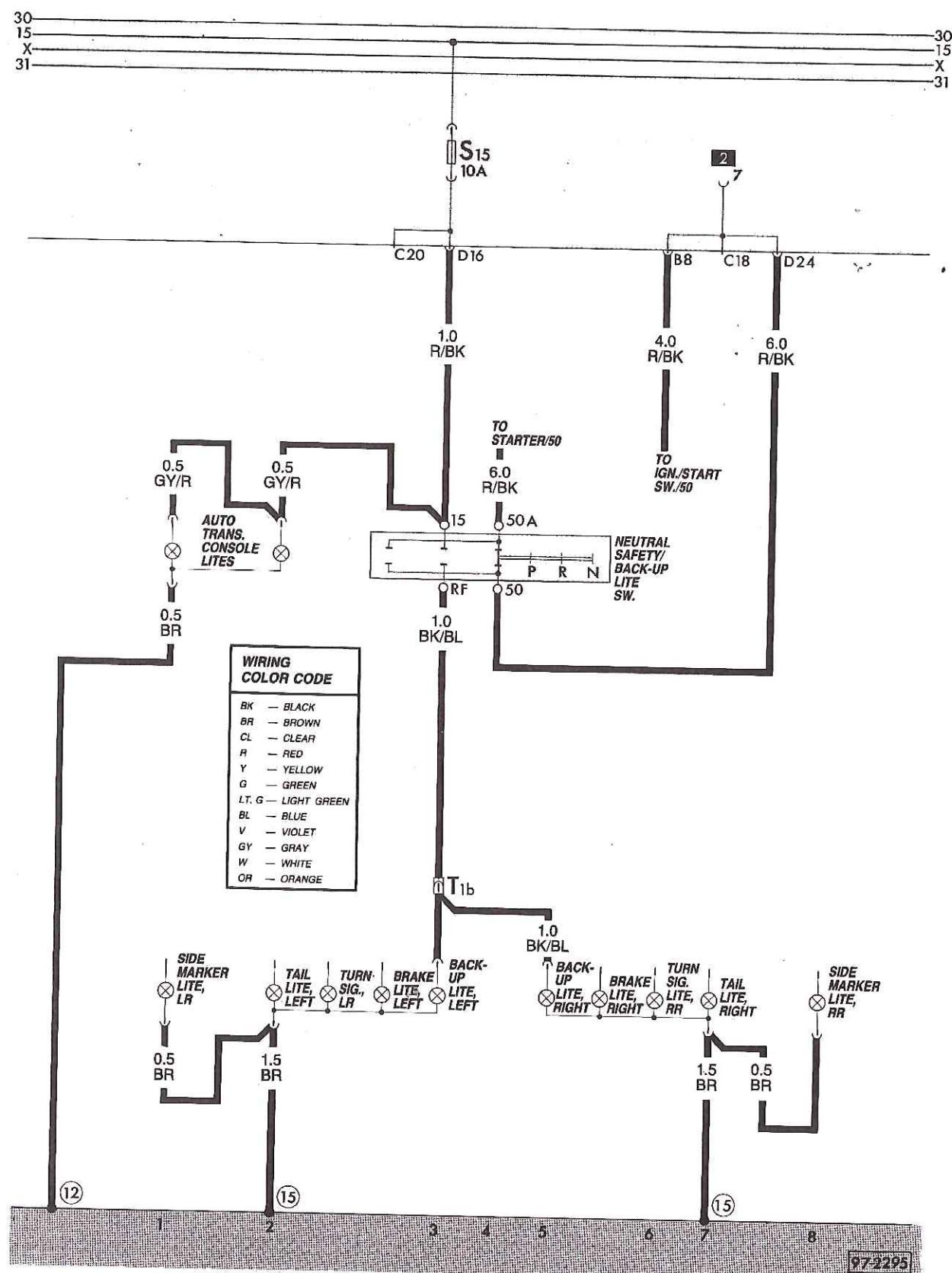
Wire Connectors

T1b — single, wire distributor, eng. compart.

Ground Connections

(12) — on sub-frame, LF

(15) — eng. compart., under ignition coil



Vanagon

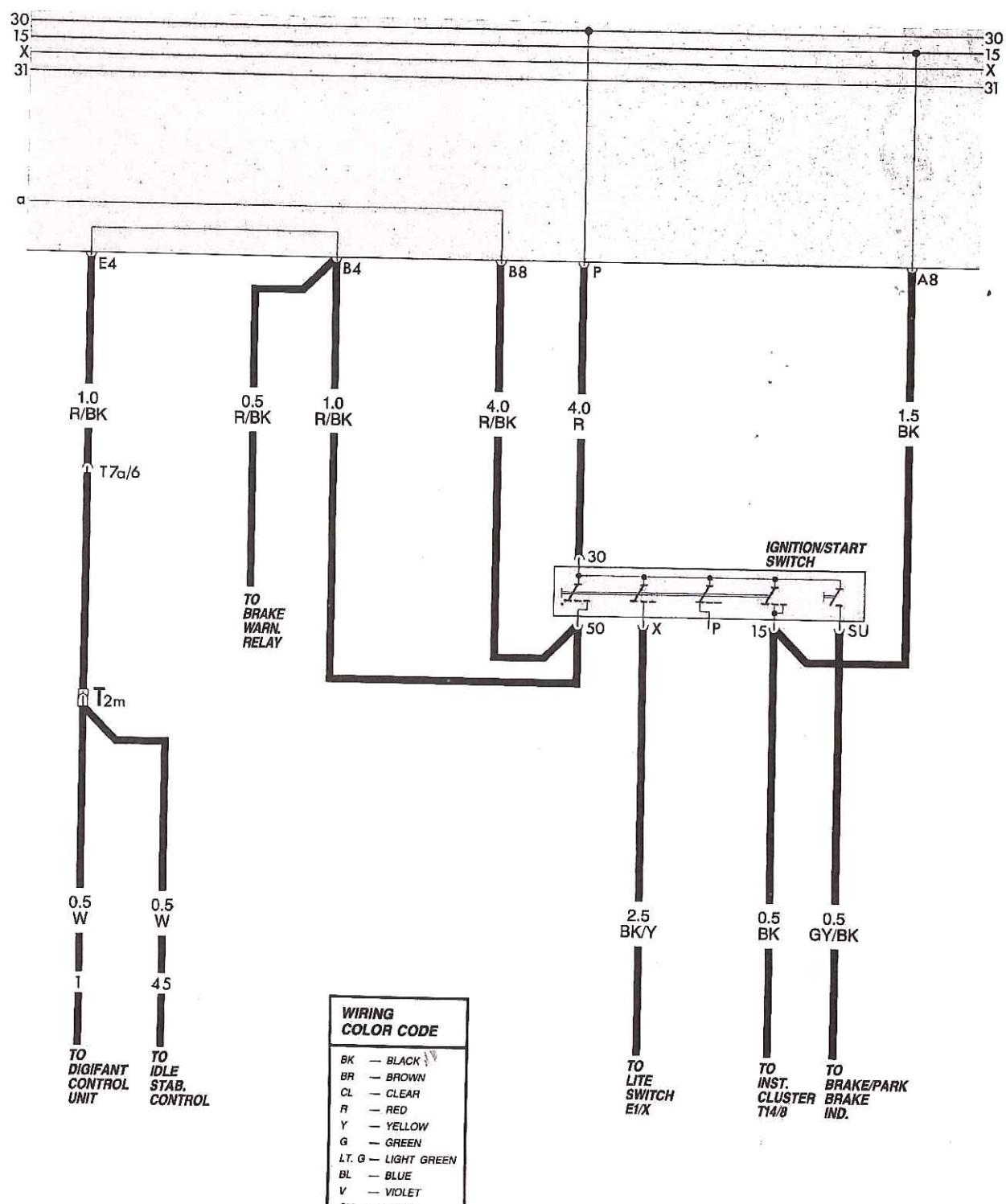
Description	Current Track
Alternator	6
Auxiliary battery	2
Battery	3
Battery cut-out relay	1-2
Ignition/start switch	12-15
Starter	4-5
Voltage regulator	6-7

Wire connectors

- T1d — single, wire distributor, LF eng. compart.
- T2k — double, under fuse/relay panel
- T2m— double, under fuse/relay panel
- T7a/— seven point, wire distributor, LF eng. compart.
- T14/— fourteen point, on inst. cluster

Ground Connections

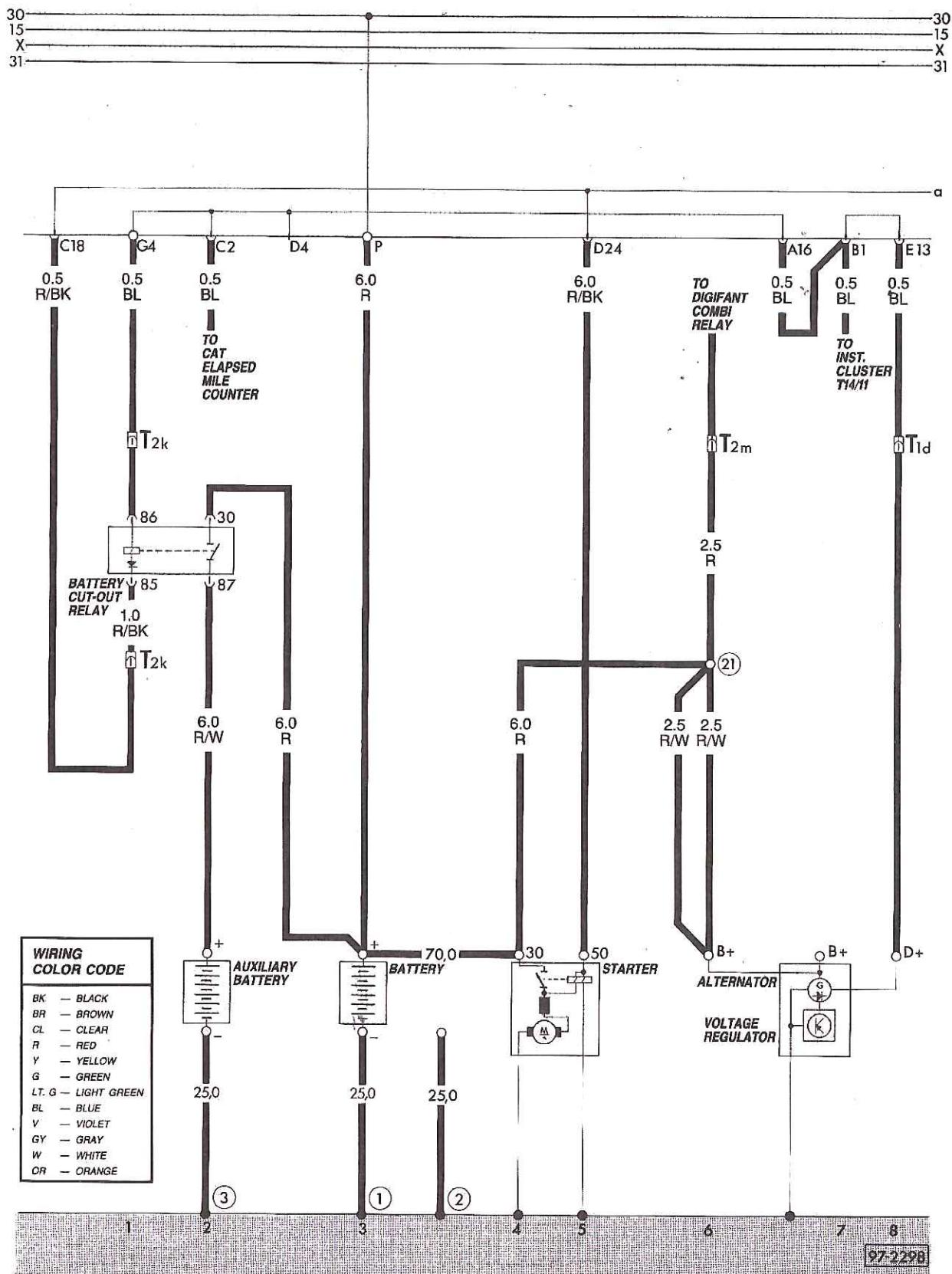
- (1)— ground from battery to body
- (2)— ground from transmission to body
- (3)— ground from aux. battery to body



9 10 11 12 13 14 15

97-2299

Vanagon



Notes

Vanagon

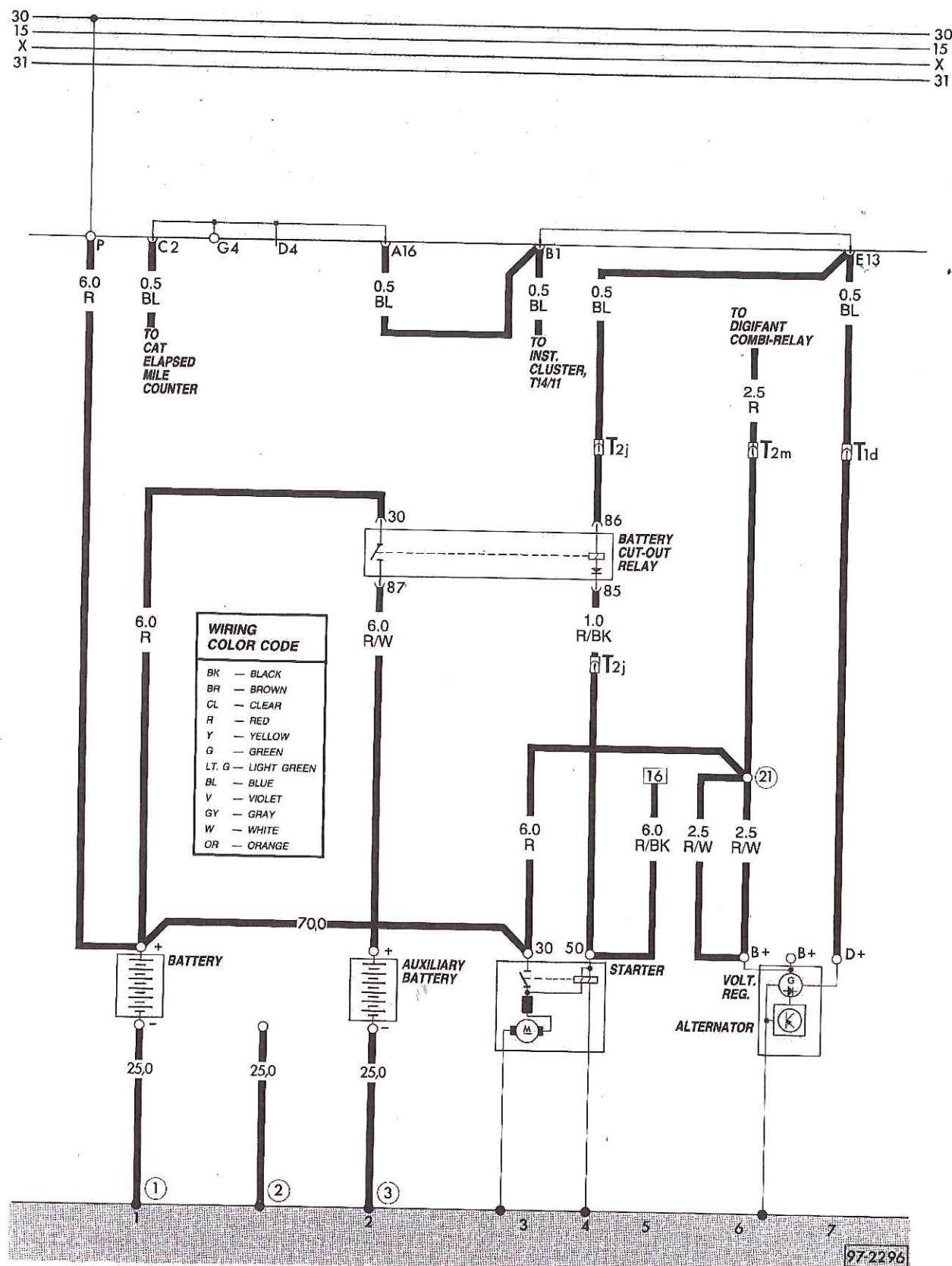
Description	Current Track
Alternator	6
Auto trans. console lites	13-14
Auxiliary battery	2
Back-up lite, left	15
Back-up lite, right	17
Battery	1
Battery cut-out relay	2-4
Ign./start sw.	9-12
Neutral safety switch	15-17

Wire connectors

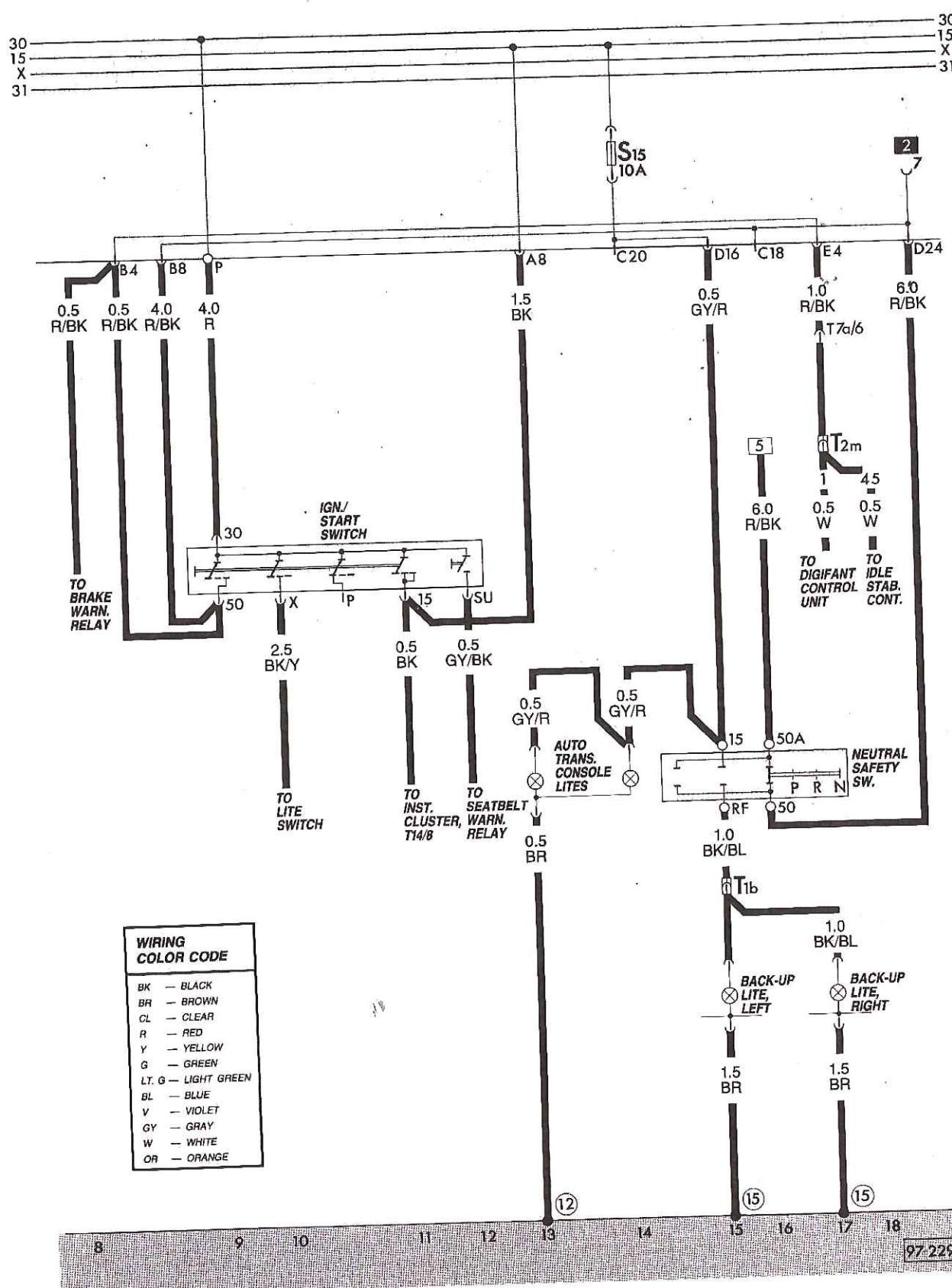
- T1b — single, wire distributor, LF eng. compart.
- T1d — single, wire distributor, LF eng. compart.
- T2j — double, under fuse/relay panel
- T2m — double, under fuse/relay panel
- T7a/ — seven-point, wire distributor, LF eng. compart.
- T14/ — fourteen-point, on inst. cluster

Ground Connections

- ① — ground from battery to body
- ② — ground from transmission to body
- ③ — ground from aux. battery to ground
- ⑫ — on LF cross member
- ⑯ — in eng. compart. near ign. coil



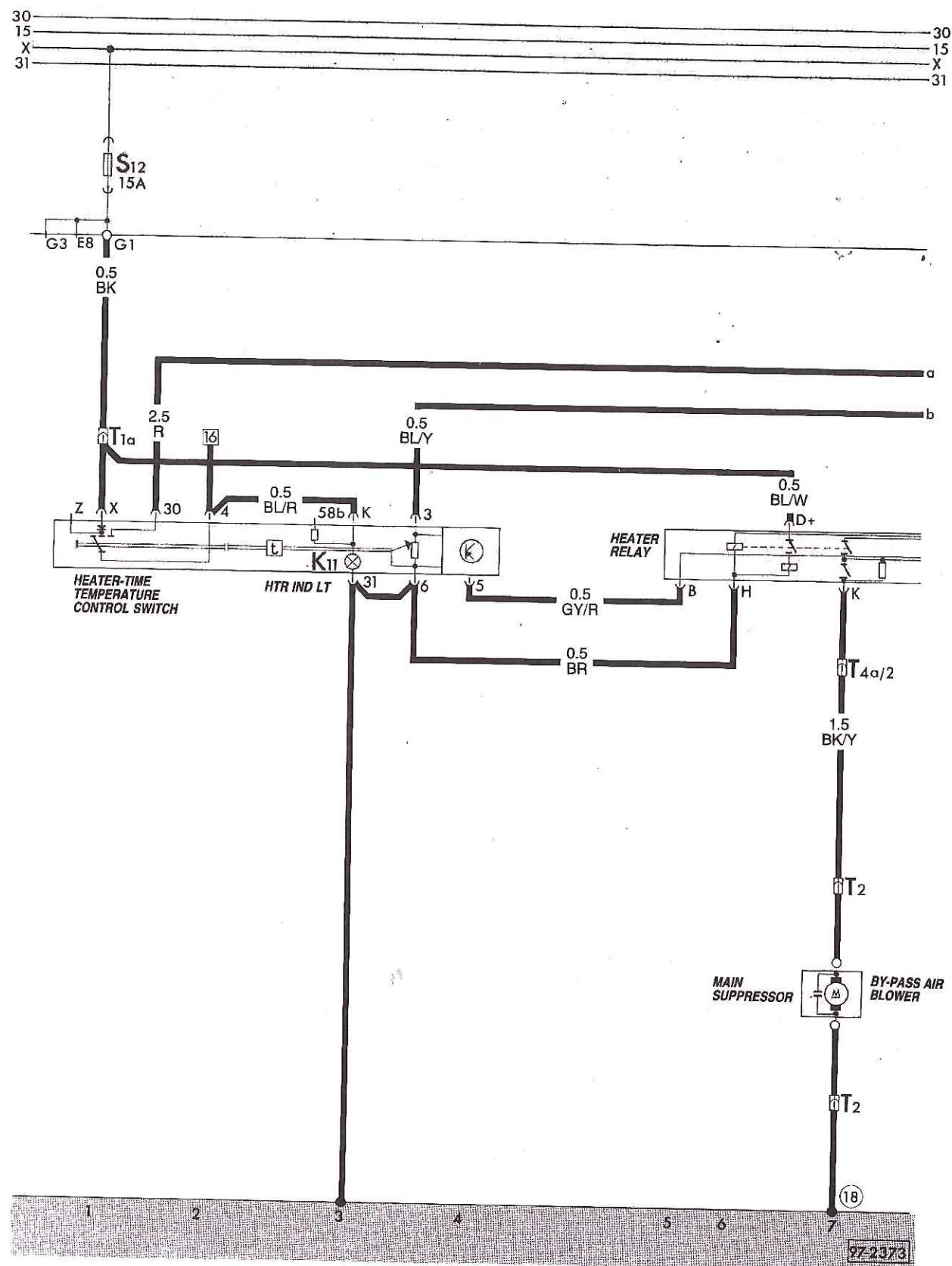
Vanagon



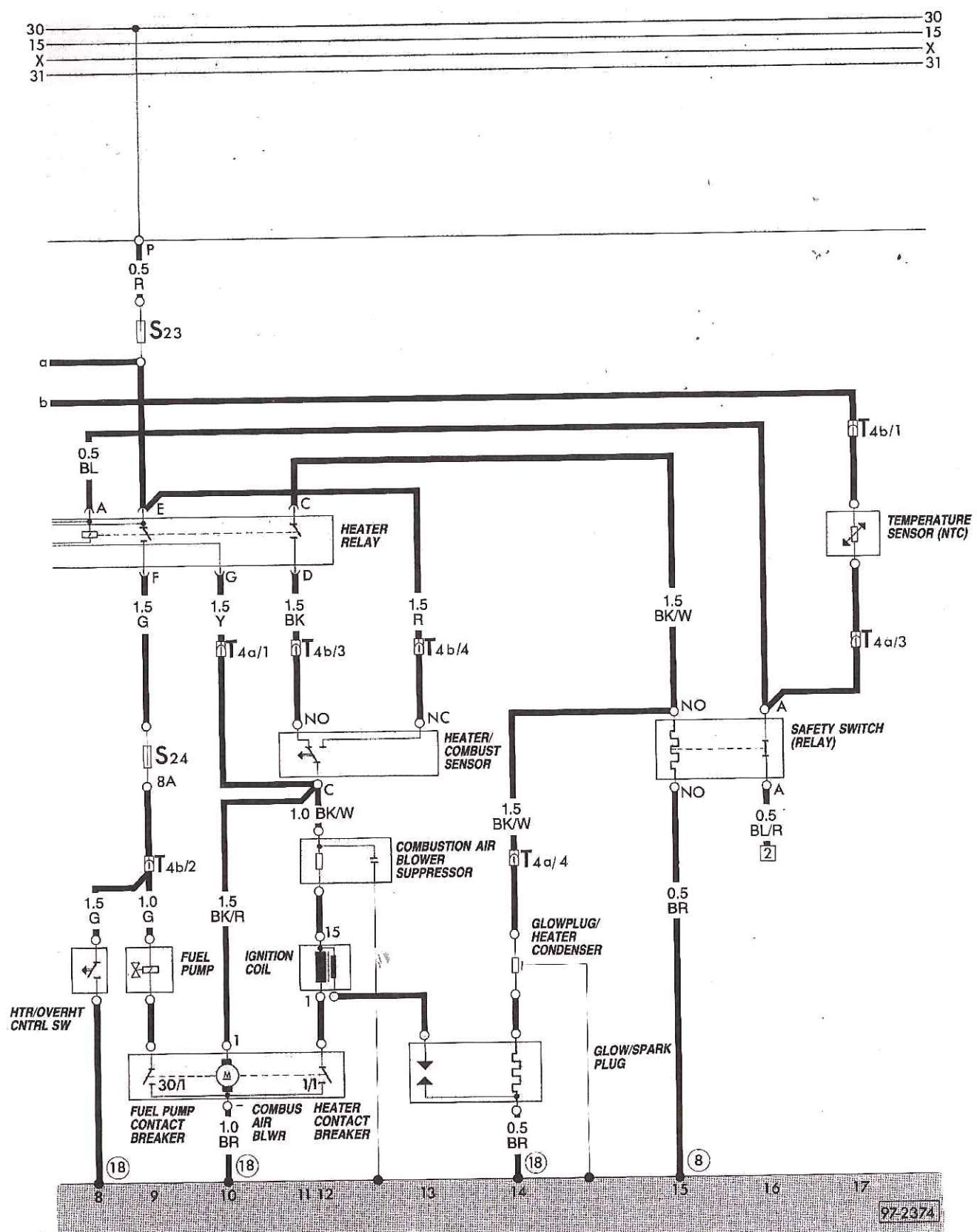
Notes

Vanagon

Description	Current track	Wire connectors
By-pass air blower	7	T1a — single, under instrument panel T2 — double, on fresh air blower
Combustion air blower	10	T4a — four-point, under instrument panel
Combustion air blower suppressor	12	T4b — four-point, under instrument panel
Fuel pump.	9	
Fuel pump contact breaker	9	
Glow/spark plug	13,14	
Glowplug/heater condenser	14	
Heater contact breaker	12	
Heater indicator lite	3	
Heater relay	8-11	
Heater relay	5-7	
Heater-time temperature control switch	1-4	
Heater/combustion sensor	11-13	
Heater/overheat control switch	8	
Ignition coil	12	
Main suppressor	7	
Safety switch (relay)	15,16	
Temperature sensor (NTC)	17	



Vanagon



Notes

Vanagon

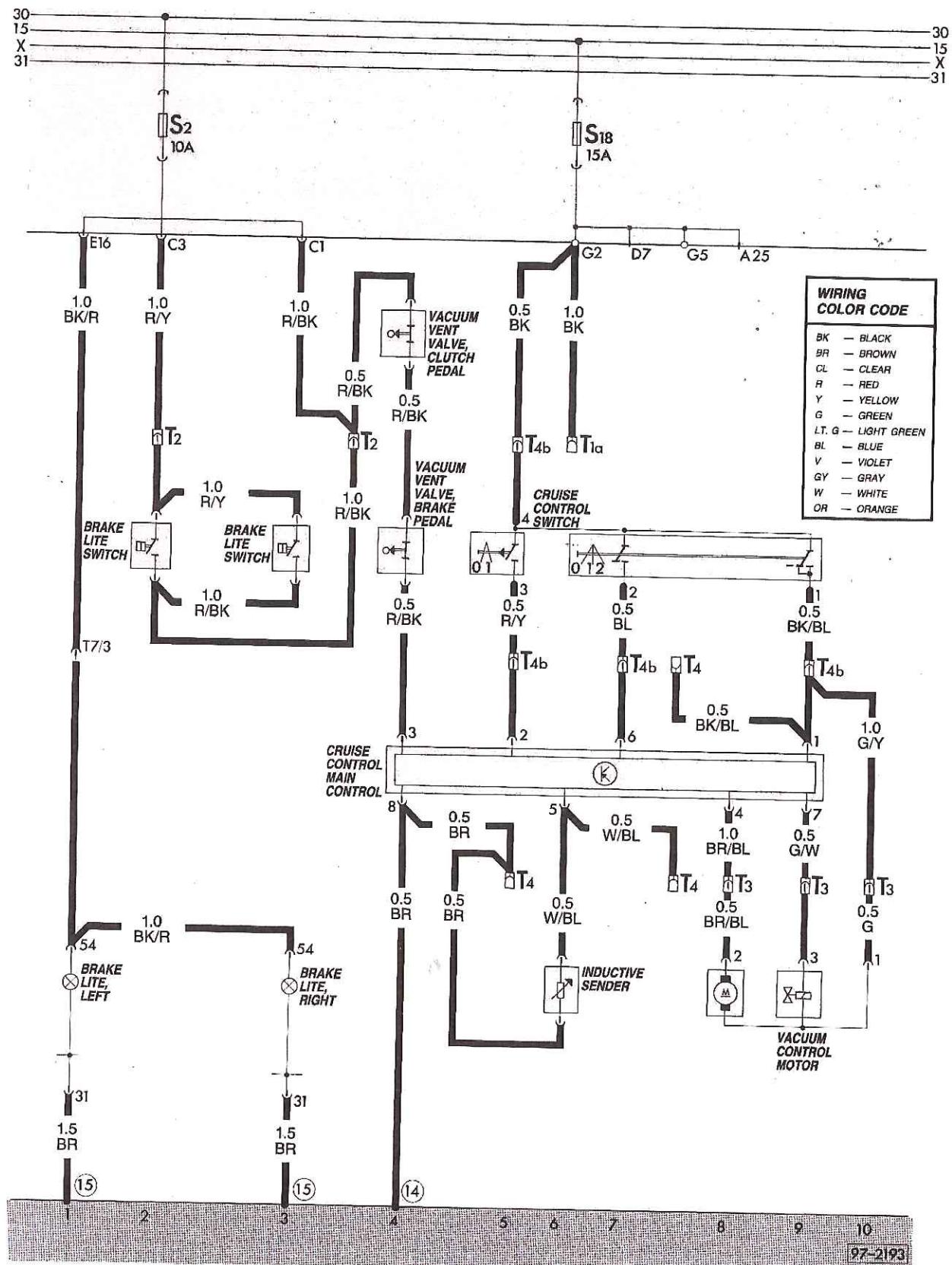
Description	Current Track
Brake lite, left	1
Brake lite, right	3
Brake lite, switch	2-3
Cruise control main control	4-9
Cruise control switch	5-9
Inductive sender	6
Vacuum control motor	8-10
Vacuum vent valve, brake pedal	4
Vacuum vent valve, clutch pedal	4

Wire Connectors

- T1a — single, under instrument panel
- T2 — double, under instrument panel
- T3 — three-point, in eng. compart.
- T4 — four-point, near cruise control main control
- T4b — four-point, under instrument panel
- T7 — seven-point, in wire distributor box

Ground Connections

- (14) — under instrument panel
- (15) — in eng. compart., under coil



Vanagon

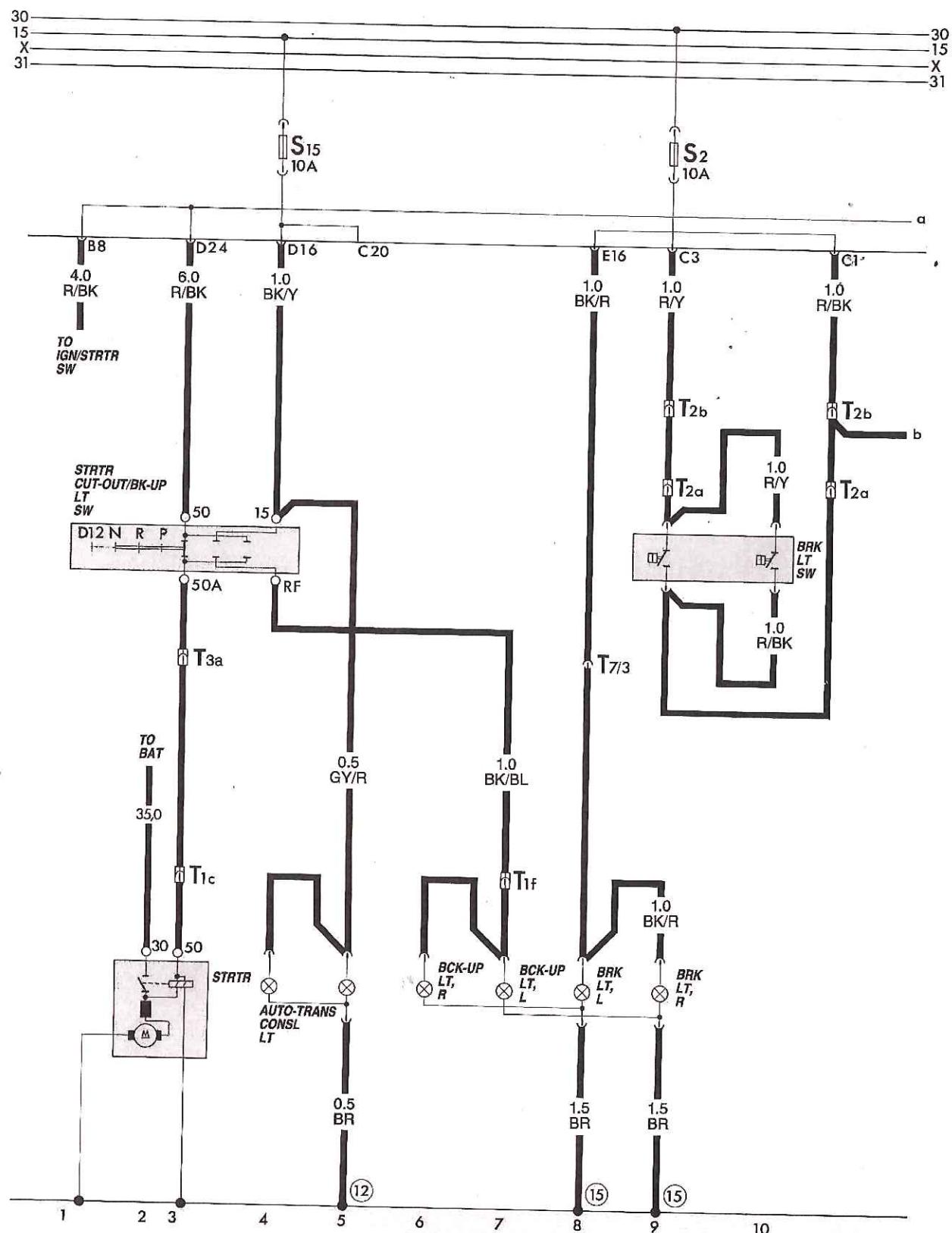
Description	Current track
Automatic transmission console lite	4,5
Automatic transmission relay	12,13
Back-up lite, left	7
Back-up lite, right	6
Brake lite switch	9,10
Brake lite, left	8
Brake lite, right	9
Cruise control inductive sender	16
Cruise control switch	15-17
Cruise control, main control unit	14-18
Starter	2,3
Starter cut-out/back-up lite switch	3,4
Vacuum control motor	17,18
Vacuum vent valve, brake	11

Wire connectors

- T1 — single, under instrument panel
- T1a — single, under instrument panel
- T1c — single, eng. compart., near starter
- T1f — single, in wire distributor
- T2 — double, under instrument panel
- T2a — double, under instrument panel
- T2b — double, under instrument panel
- T3 — three point, in eng. compartment
- T3a — three point, under instrument panel
- T4 — four point, near cruise control main control
- T4b — four point, under instrument panel
- T7/ — seven point, in wire distributor box

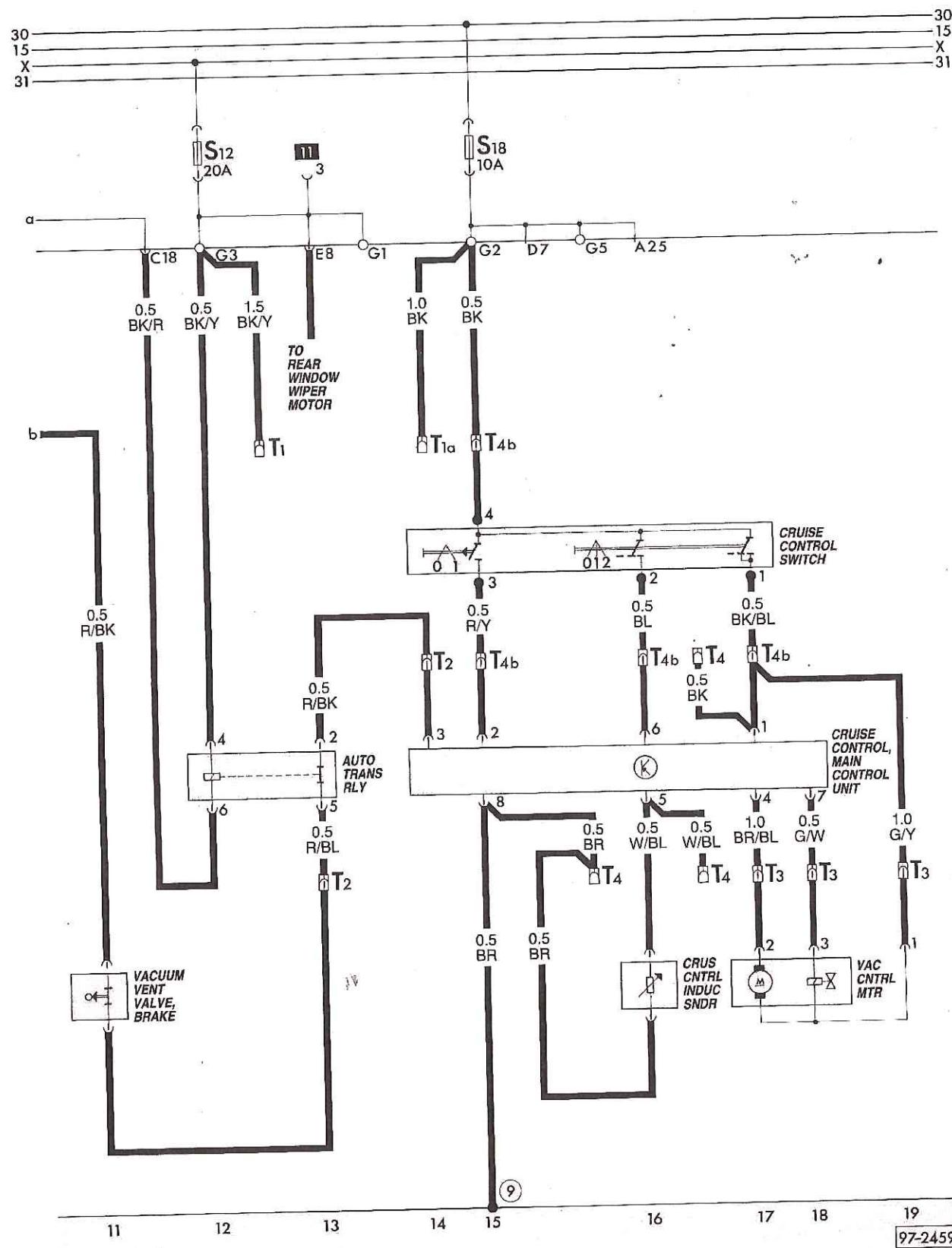
Ground connections

- (9) — under instrument panel
- (12) — on left front crossmember
- (15) — in eng. compart., under ign. coil



97-2301

Vanagon



Notes

Vanagon

Description	Current Track
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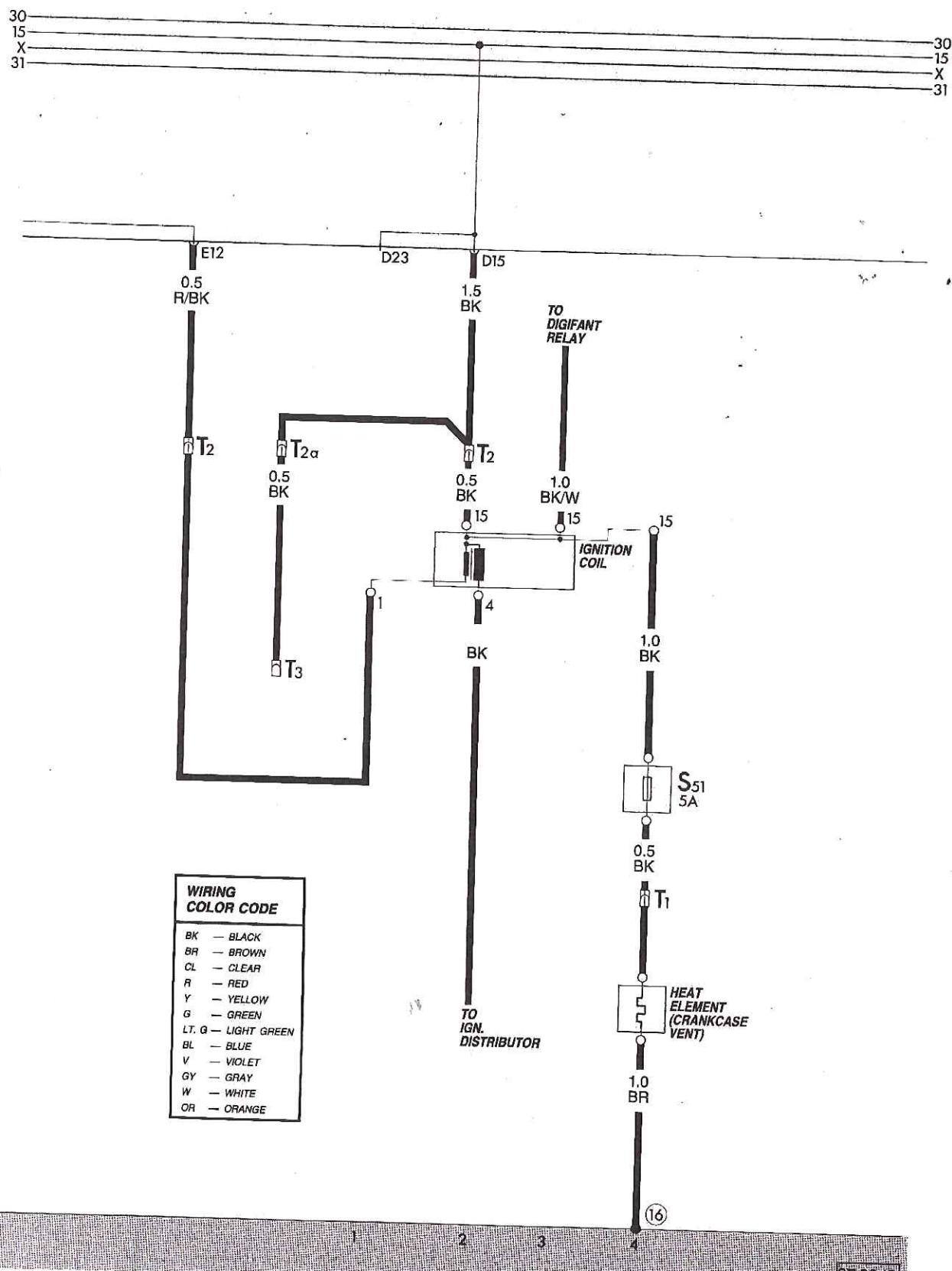
Heat element (crankcase vent)	4
Ignition coil	2-3

Wire connectors

T1 — single, eng. compartment
T2 — double, wire distributor, eng. compart, LF
T2a — double, under rear seat, left
T3 — three-point, under rear seat, right

Ground connections

(16) — on left cylinder head



Vanagon

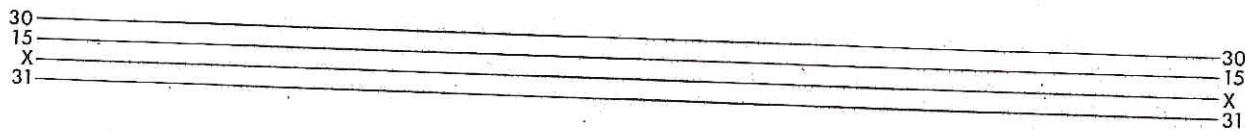
Description	Current track
Differential lock indicator lite	2
Differential lock switch	2

Wire connectors

- T3 — three point, under instrument panel
T3a — three point, under inst. panel, near fuse/relay panel

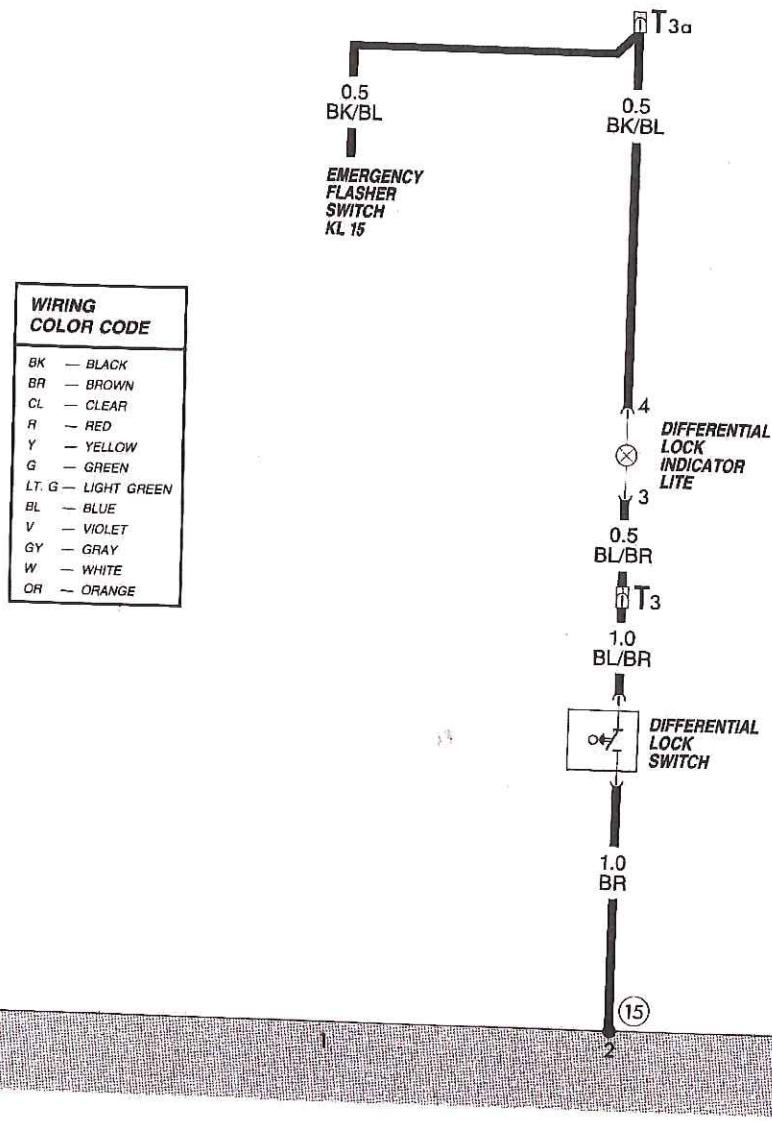
Ground connections

- (15) — in eng. compart, under ign. coil



Note

Differential switches on instrument panel are vacuum operated and do not appear on the wiring diagram.



Vanagon

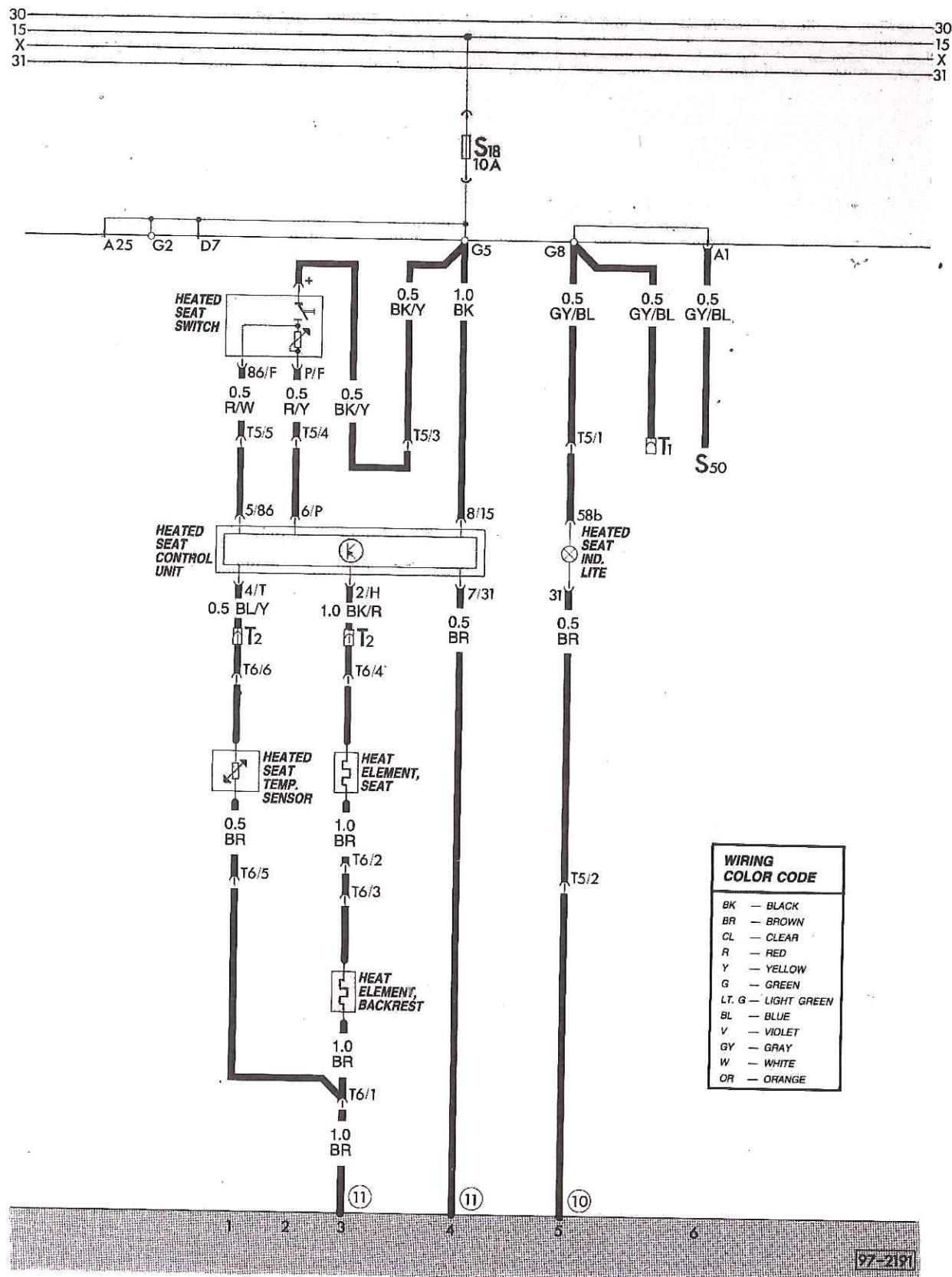
Description	Current Track
Heated seat control unit	1-4
Heated seat indicator lite	5
Heated seat switch	1-2
Heated seat temp. sensor	1
Heat element, backrest	3
Heat element, seat	3

Wire connectors

- T1 — single, behind instrument panel
- T2 — double, behind instrument panel
- T5/ — five-point, behind instrument panel
- T6/ — six-point, behind instrument panel

Ground connections

- ⑩ — behind inst. panel, near fuse/relay panel
- ⑪ — behind instrument panel



Vanagon

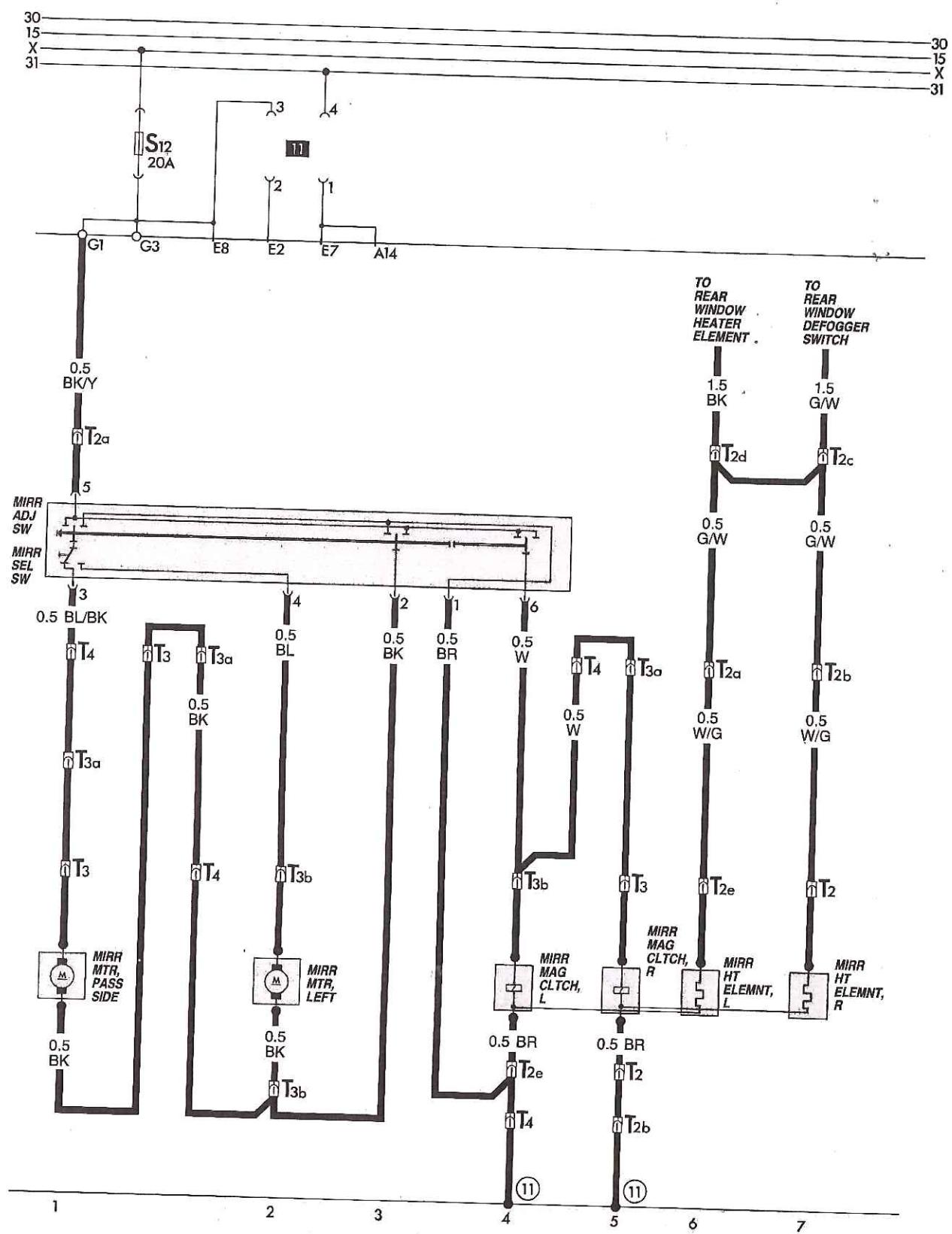
Description	Current track
Mirror adjustment switch	1-4
Mirror heat element, left	6
Mirror heated element, right	7
Mirror magnetic clutch, left	4
Mirror magnetic clutch, right	5
Mirror motor, left	2
Mirror motor, passenger side	1
Mirror selector switch	1,2

Wire connectors

- T2 — double, in passenger door
- T2a — double, under instrument panel
- T2b — double, under instrument panel
- T2c — double, under instrument panel
- T2d — double, under instrument panel
- T2e — double, in driver door
- T3 — three point, in passenger door
- T3a — three point, under instrument panel
- T3b — three point, in driver door
- T4 — under instrument panel

Ground connections

- (11) — under instrument panel



97-2453

Vanagon

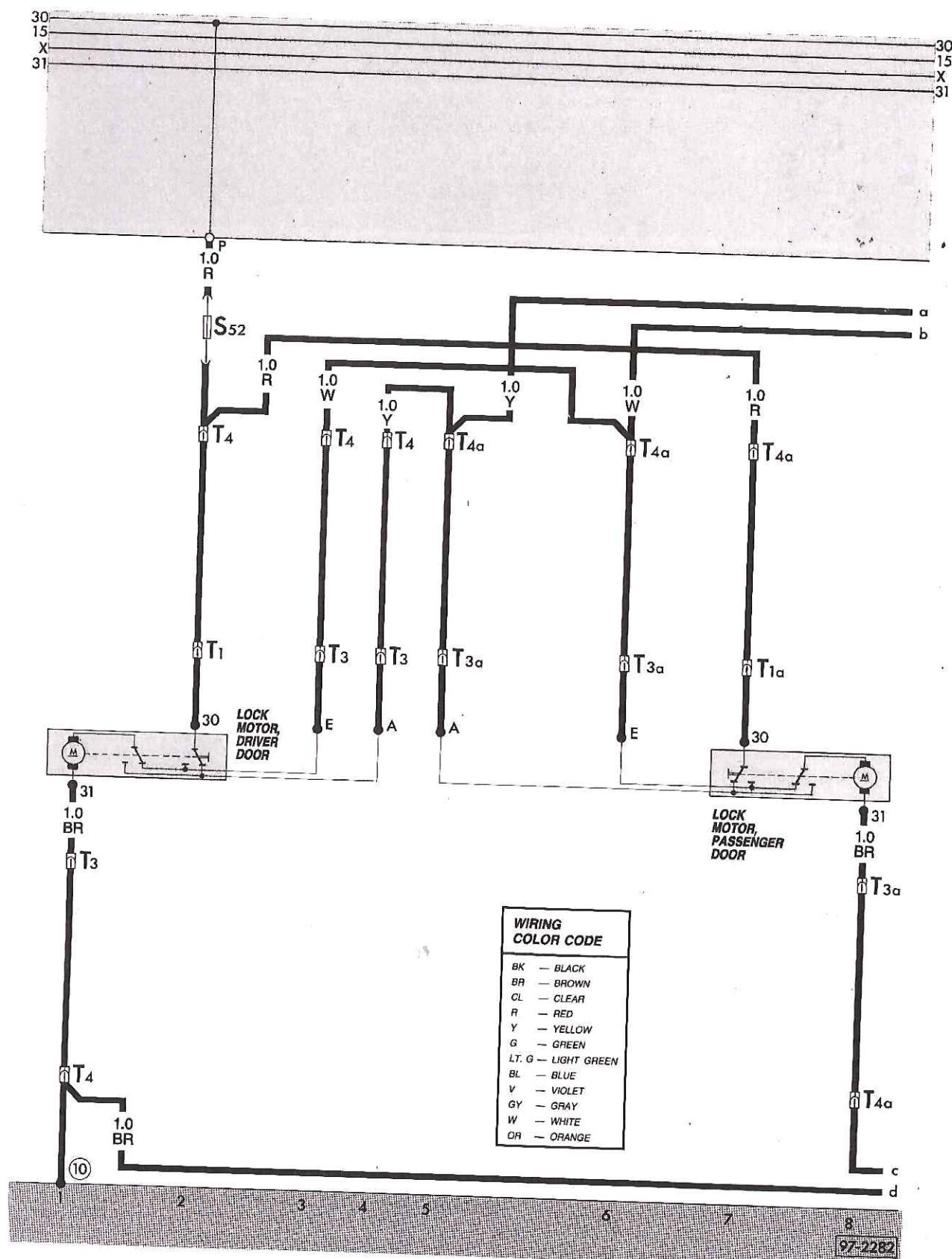
Description	Current track
Door lock contact, sliding door	9-11
Lock motor, driver door	1,2
Lock motor, passenger door	7,8
Lock motor, rear door	12, 13
Lock motor, sliding door	9-11

Wire connectors

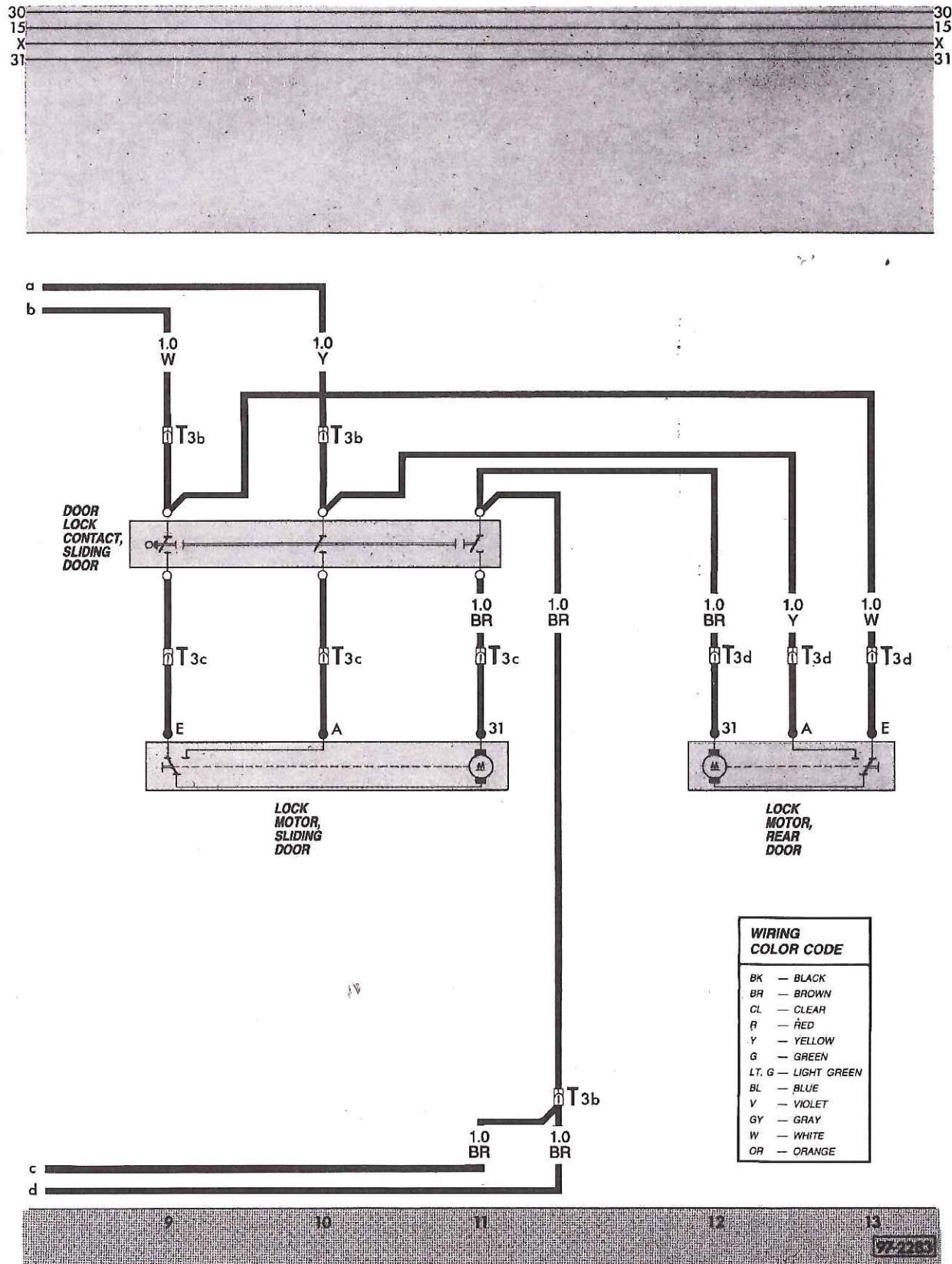
- T1 — single, in driver door
- T1a — single, in passenger door
- T3 — three point, in driver door
- T3a — three point, in passenger door
- T3b — three point, under instrument panel
- T3c — three point, in sliding door
- T3d — three point, in rear door
- T4 — four point, under instrument panel
- T4a — four point, under instrument panel

Ground connector

- (10) — under instrument panel



Vanagon



Notes

Vanagon

Description	Current track
Window motor, left front door	3
Window motor, right front door	7
Window relay	1,2
Window switch, left front	2-5
Window switch, RF (in LF door)	6-9
Window switch, right front	6-9

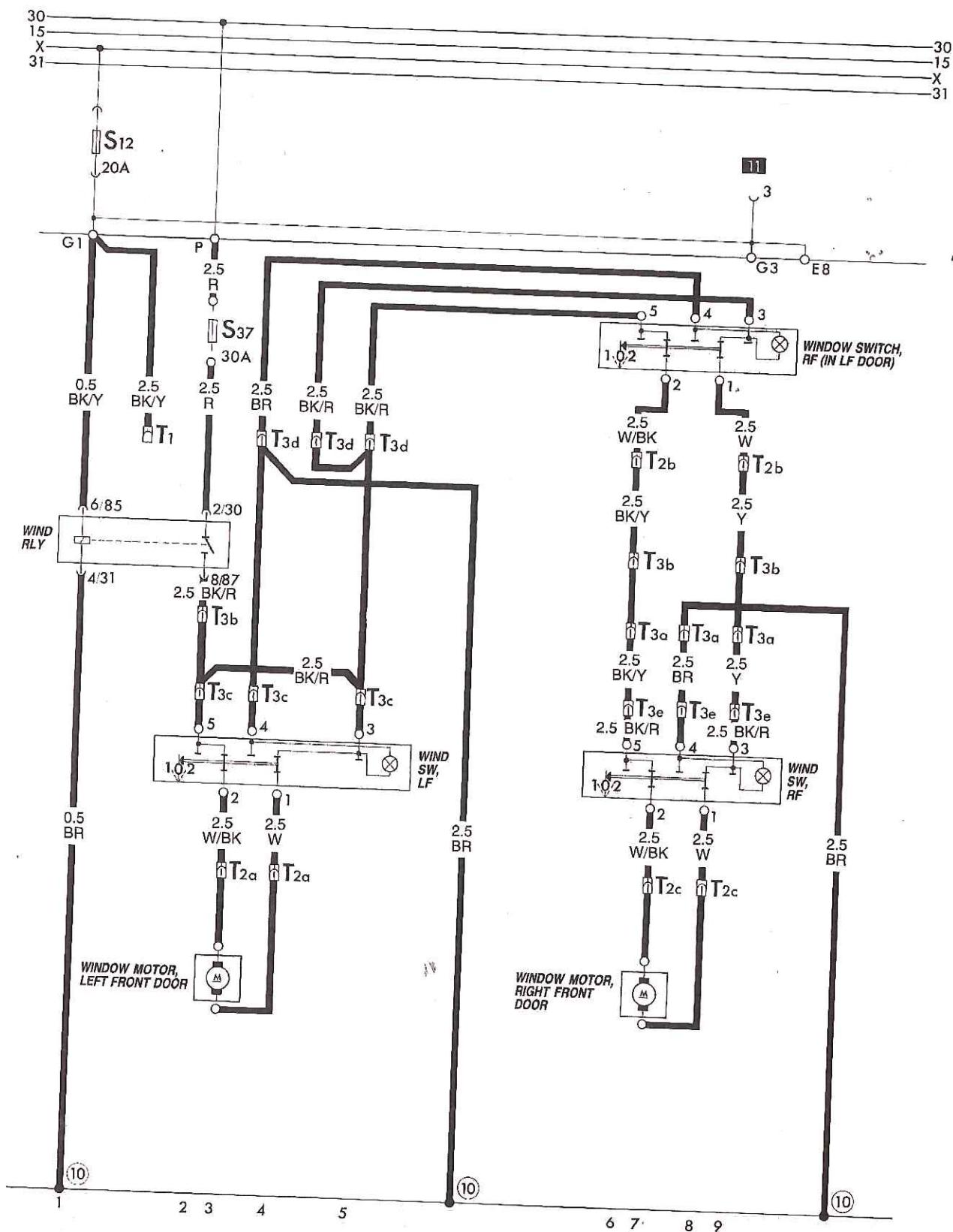
Wire connectors

- T1 — single, under fuse/relay panel
- T2a — double, in driver door
- T2b — double, in driver door
- T2c — double, in passenger door
- T3a — three-point, in passenger door
- T3b — three-point, in driver door
- T3c — three-point, in driver door
- T3d — three point, in driver door
- T3e — three point, in passenger door

Ground connections

- (10) — near fuse/relay panel

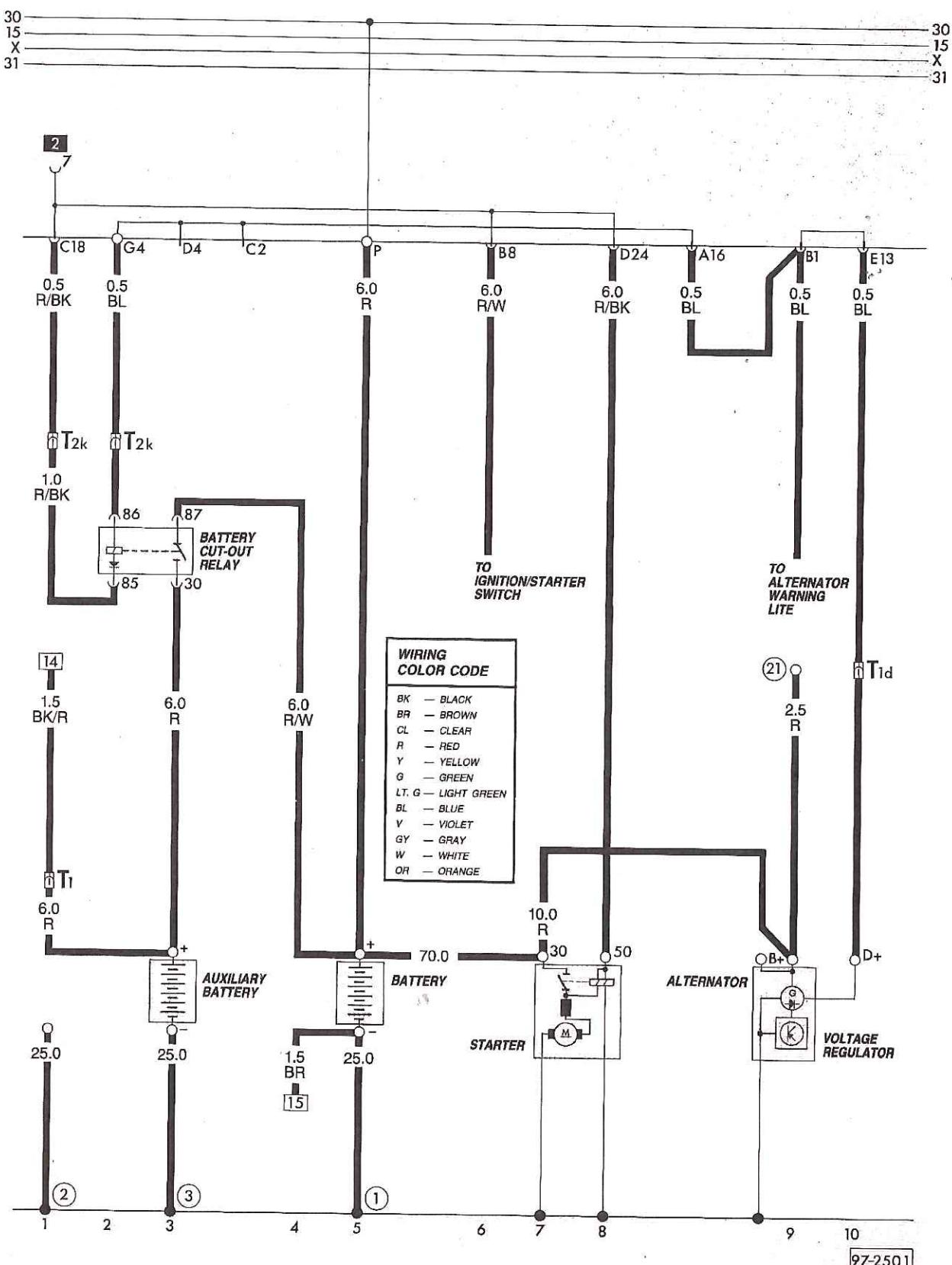
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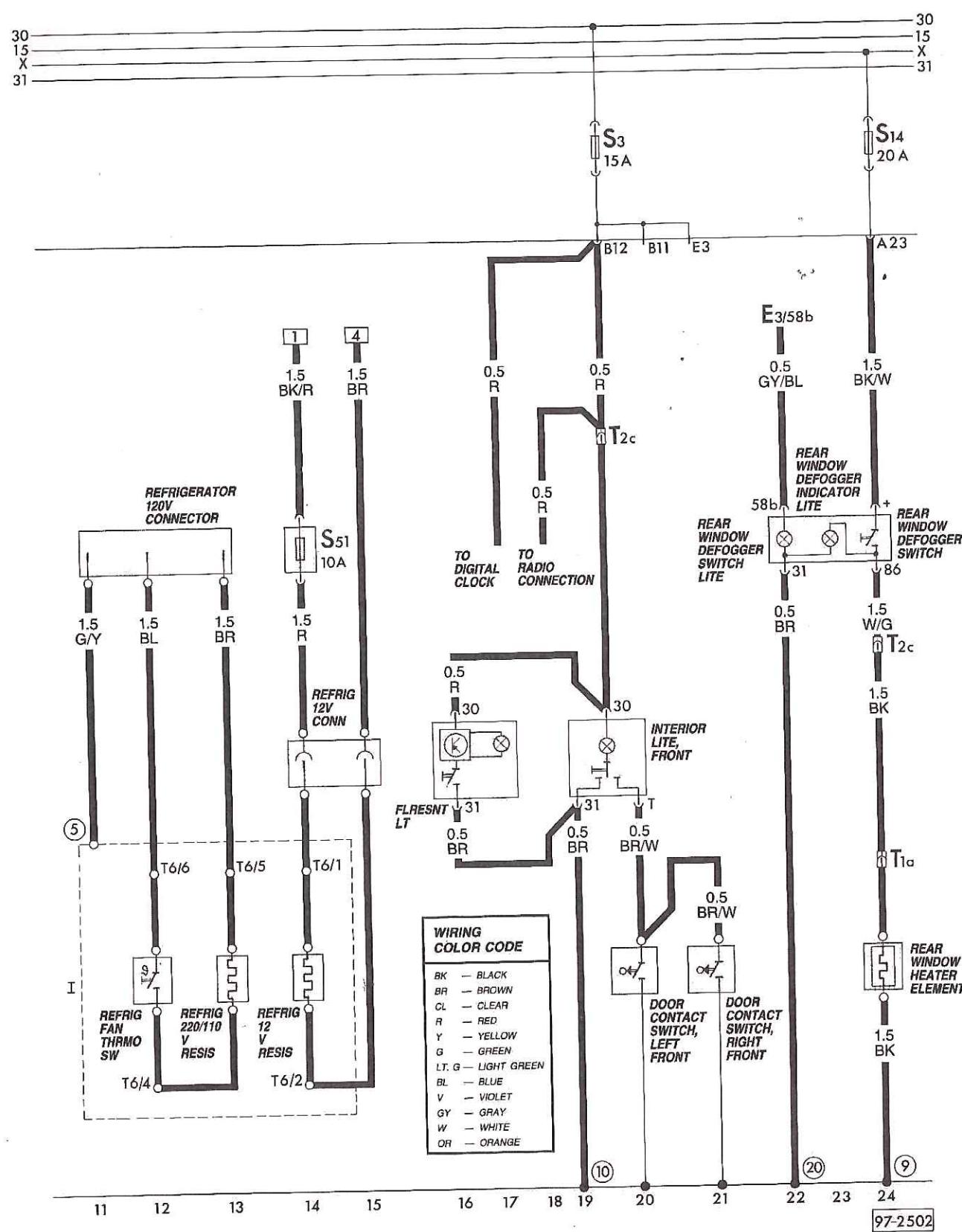
97-2460

Vanagon

Description	Current track	Wire connectors
Alternator	9,10	T1 — single, near auxiliary battery
Auxiliary battery	3	T1a — single, under instrument panel
Battery	5	T1d — single, wire distributor, engine compart.
Battery cut-out relay	2,3	T2c — double, under instrument panel
Door contact switch, left front	20	T2k — double, under driver seat
Door contact switch, right front	24	T6/ — six-point, in refrigerator
Flourescent lite	16	
Interior lite, front	19,20	Ground connections
Rear window defogger indicator lite	23	(1) — ground cable from battery to body
Rear window defogger switch	24	(2) — ground cable from trans. to body
Rear window defogger switch lite	22	(3) — ground cable from aux. battery to body
Rear window heater element	24	(5) —
Refrigerator 12 Volt resistance	14	(9) — ground in rear deck lid, right
Refrigerator 120V connector	11-13	(10) — near fuse/relay panel
Refrigerator 12V connector	14,15	(20) — in inst. panel wiring harness
Refrigerator 220/110 Volt resistance	13	
Refrigerator fan thermostwitch	12	
Starter	7,8	Plus connections
Voltage regulator	9	(21) — in wire distributor, eng. compart.



Vanagon



Notes

Vanagon

Description	Current Track
Antenna	3
Balance control	9-12
Cigar lighter	1
Cigar lighter lite	5-6
Radio	4-8
Speaker, LF	12
Speaker, LR	11
Speaker, RF	9
Speaker, RR	10

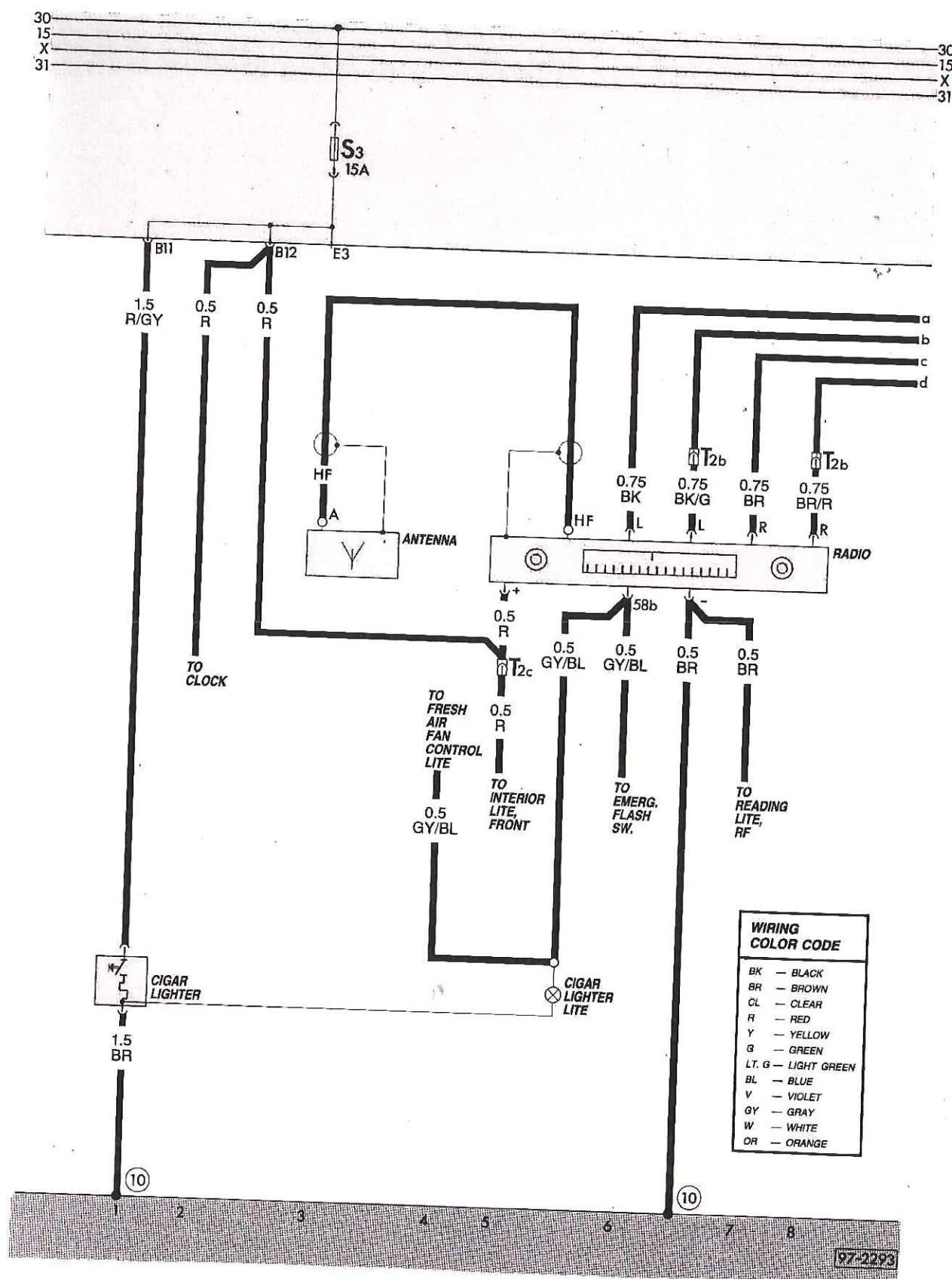
Wire connectors

- T2 — double, behind instrument panel
- T2a — double, behind instrument panel
- T2b — double, behind instrument panel
- T2c — double, behind instrument panel
- T3 — three-point, behind instrument panel

Ground connections

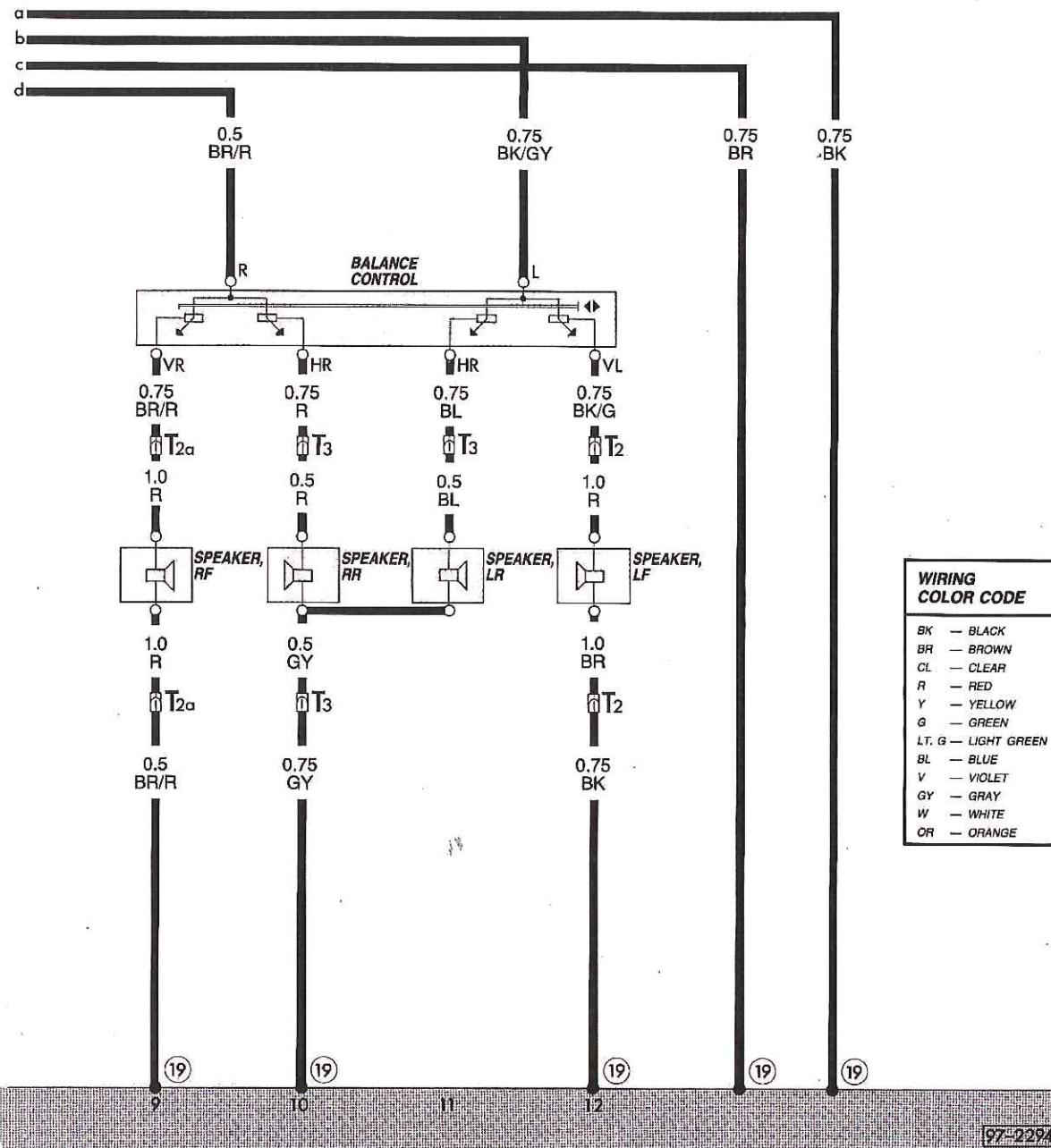
- (19) — in balance control wiring harness

Vanagon



Vanagon

30-----30
 15-----15
 X-----X
 31-----31



Notes

Vanagon

Description	Current track
Radiator cooling fan	1
Radiator cooling fan low speed resistor	1
Radiator cooling fan relay (2nd stage)	2-4
Radiator cooling fan thermoswitch	1,2

Wire connectors

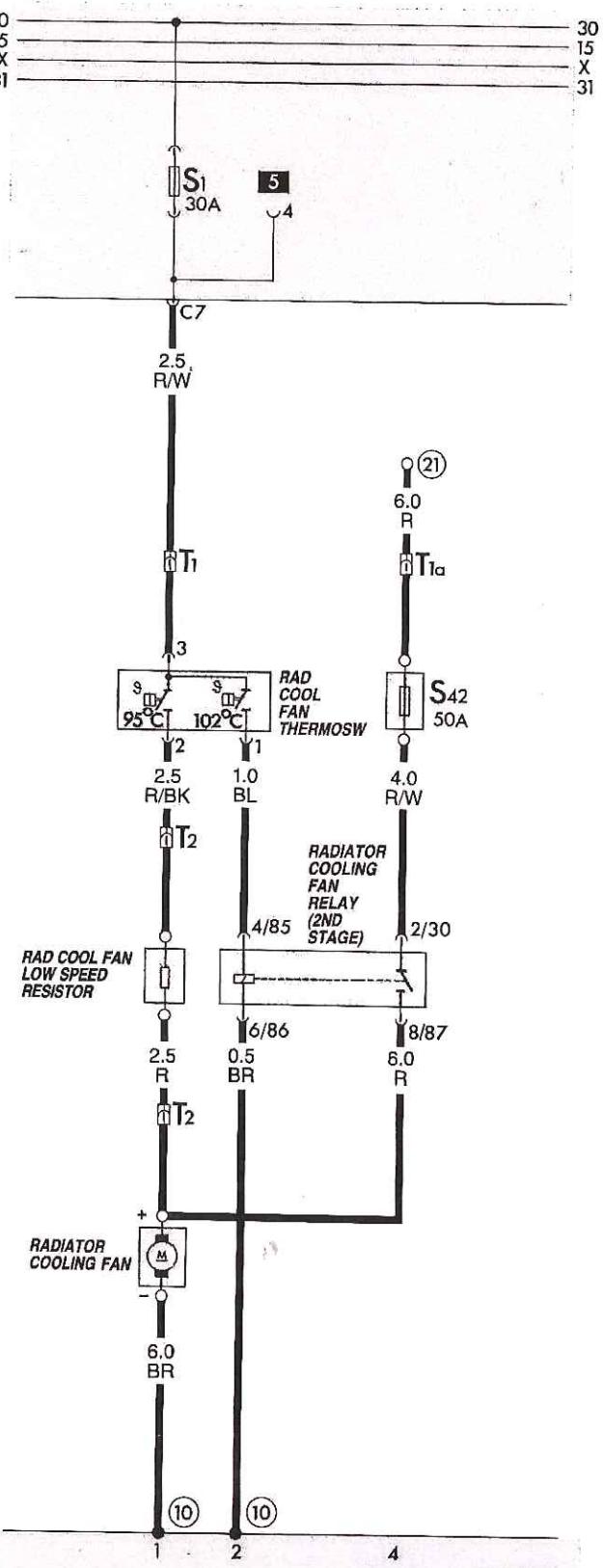
- T1 — single, under fuse/relay panel
- T1a — single, under instrument panel
- T2 — double, under instrument panel

(+) connectors

- (21) — terminal 30, in wire distributor in eng. compart.

Ground connectors

- (10) — near fuse/relay panel



Notes



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