FOREWORD

New style wiring harness is designed upon *Chery sedan wiring harness-updating plan* approved by Chery Auto Co., LTD in July 2001. According to updated plan, concentrated control in central electrical box is replaced with a nearby control method in design, enhancing circuit performance, avoiding internal resistance and heat sources interference between electrical devices and increasing the whole vehicle wiring harness reliability and endurance.

During updating, some structures and features on home and abroad famous brand name vehicles are used for reference or equivalently taken as follows:

1. Adding whole vehicle electrical devices problem automatic safety-protect unit, which ensure whole circuit system being cut off when sudden accident occurs to avoid possible fire hazard or other injury from short problem.

2. Selecting a new central electrical box mainly used for whole vehicle control circuit, in which there are 6 built-in mini relays, 24 type fuses, 3 intensive safety protect units and 58 external connecting points.

3. High current and power electrical devices are nearby controlled, such as fan and A/C control circuit are directly completed at front compartment harness, shortening the current path.

Comparing with old wiring harness, main changes in wiring harness and electrical devices are as follows:

Interior harness, front compartment harness, I/P (instrument panel) harness, battery positive harness, central electrical box, two front and rear fog light switches instead of one switch on old vehicle, and also relevant changes in ABS harness connector.

But control theory and whole vehicle harness routing mainly keep unchanged.

Only whole vehicle electrical devices theory illustrations are available in this manual and there exists difference with actual electrical devices circuit. For convenience of compiling and printing, some big circuits page are divided into several small pages, which will take inconveniences when reading and therefore will require the user have a good command of circuits on SQR710 sedan.

For compilers' knowledge and time limits as well as rapid technology updating, some errors and oversights are hard to avoid and kindly appreciate for users' pointing out with the idea of improving together. Electrical system are rapidly updated, therefore some new circuit are not compiled on this manual on the time of publishing and will be supplemented timely.

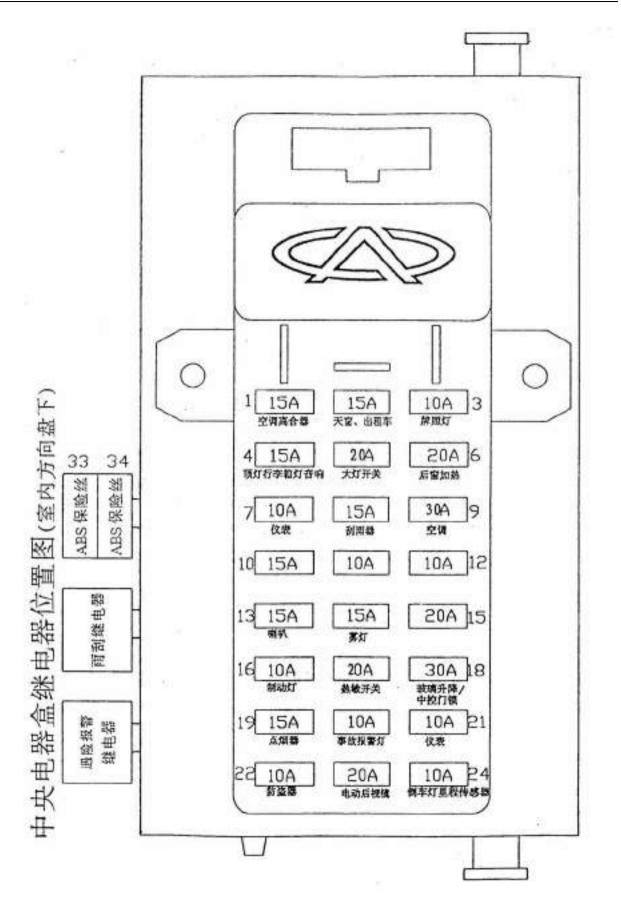
This manual is compiled by Chang Yongjiu, Yao Shen and reference books are supplied by product department.

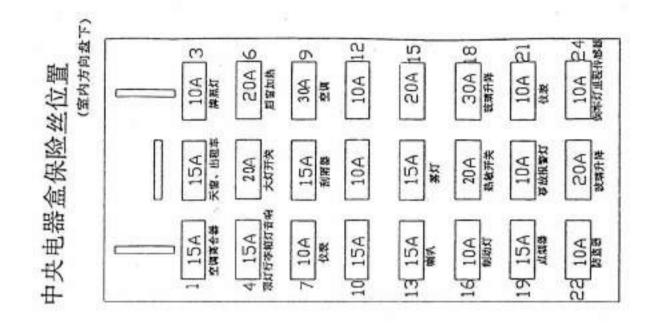
Written by compilers

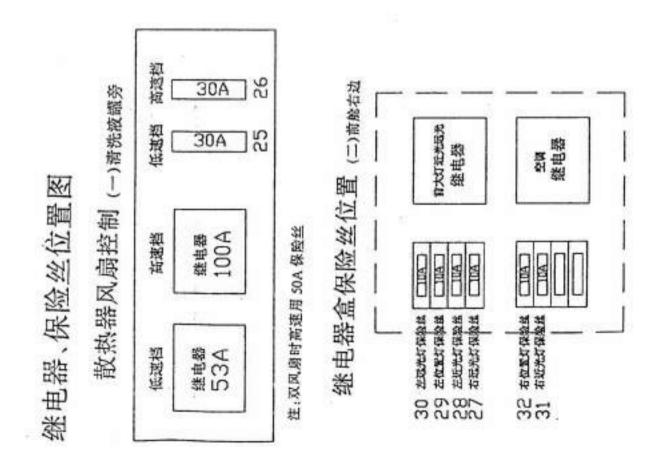
November 2002

TOTAL CONTENT

No.1	Central Electrical Box Fuse And Relay Position	(2 Pages)
No.2	Central Electrical Box Connector Position And Function	(3 Pages)
No.3	Circuit Manual Explanation	(2 Pages)
No.4	Circuit	(23 Pages)
No.5	ET Vehicle Circuit	(25 Pages)

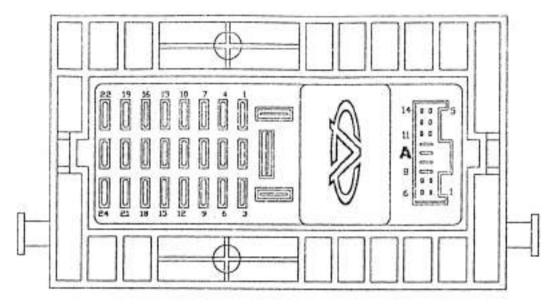




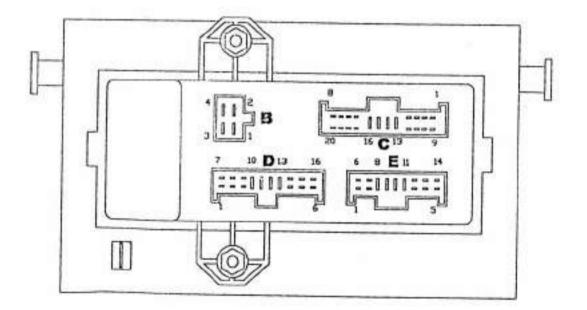


- 4 ---

Central Electrical Box Connector Position



(FRONT SIDE VIEW)



(BACK SIDE VIEW)

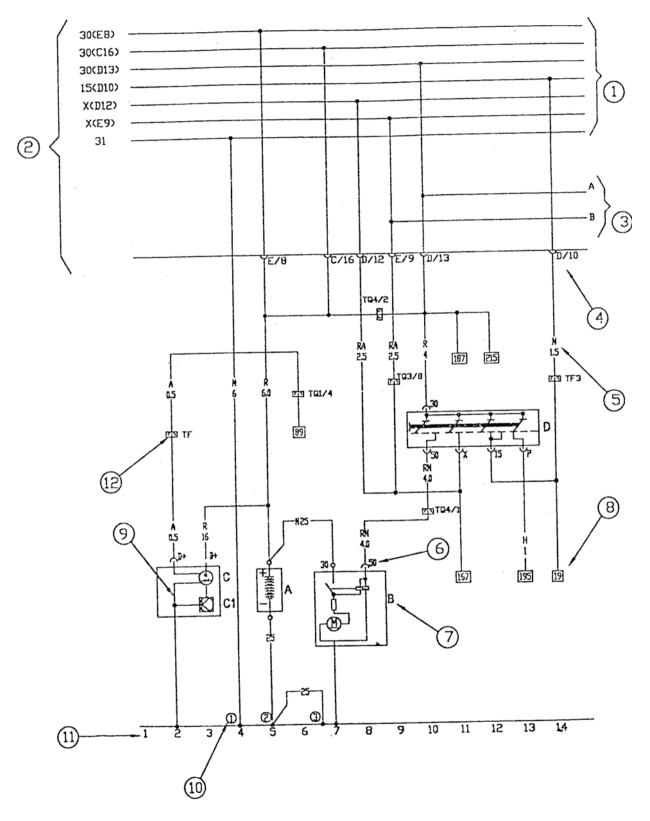
Central Electrical Box Connector, Pin and Function

Connector	Connector Pin Function	Circuit No.
	01.Sunroof, Cab Freight Calculator (+15)	_
	02.ECUA/C Signal Input	138
	03.—	_
	04.Luggage Compartment Lamp, Radio, Ceiling Lamp	247
	05.—	_
	06.——	_
	07	—
A	08	—
	09.Rear Window Preheat Switch, Rear Mirror Defrost Switch	134
	10	—
	11.Lamp Switch Illumination, ABS Diagnostic Power (+15)	132
	12	—
	13.Combination Instrument Power Positive (+30)	114
	14. Brake Switch	192
	01	_
	02	_
В	03.——	_
	04.A/C Relay, Blower, Interior Circulate Solenoid Switch	51
	01.Horn Switch	
	02.Fog Lamp Relay (Positive)	142
	03.Fog Lamp Switch	219
	04.Horn Relay Signal (30)	220
	05.Dual Pitch Horn	140
	06.Wiper Motor (Positive)	141
	07.Panel Indicator, Switch Illumination Light, Light Switch	154
	Variable Resistor	209
С	08.Back Light Switch	83
	09	152
	10	—
	11	
	12.Fog Lamp Relay (Positive)	215
	13.—	—
	14.——	
	15.Thermo Switch, A/C High Pressure Switch	47
	16.Central Electrical Box Power Positive (+30)	6

CIRCUIT_Central Electrical Box Connector, Pin and Function

Connector	Connector Pin Function	Circuit No.
	17.——	_
•	18.Wiper Intermittent Relay	149
С	19.Lincense Plate Lamp	210
	20.Mileage Gauge Sensor	81
	01	
	02.Cigar Lighter	_
	03.Turn Light Switch, Headlight Adjustment Switch	129
	04	175
	05.Combination Instrument Positive (+15)	_
	06.Sunroof, Cab Freight Calculator (+30) 07.Ground	116
	08	53
	09.RearViewMirror、LifterModule、 PositionSelect	
D	Box (+15)	
	10.Ignition Switch (+15)	272
	11.Central Locking Controller, Glass Lifter Module	14
	(+30)	260
	12.Ignition Switch, Wiper Switch (+15)	8
	13.Central Electrical Box Power Positive (+30)	10
		_
	15	_
	16	248
	01	—
	02	—
	03	—
	04.A/C Compressor Magnetic Clutch	137
	05	—
	06	—
E	07	—
L	08.Central Electrical Power Positive (+30)	5
	09.Ignition Switch (+15)	9
	10.Lamp Switch	207
	11	—
	12.Horn Relay	139
	13.——	—
	14.——	_

CIRCUIT MANUAL EXPLANATION



Compiling Explanation

- 1. Central Electrical Box Main Circuit Board Circuit No.
 - 30 : No Fuse, Positive Goes Directly From Battery
 - 15 : No Fuse, Positive Goes To Ignition----Start Switch
 - X: No Fuse, Positive Goes To Ignition ----Start Switch, And Being Cut Off During Starting
 - 31 : Fictitious Ground, This wire actually exists or does not actually exist.
 Example: 30(E8) defines these 30 hot wires are directly from battery, and come from central electrical box socket E pin No. 8.
 30(C16), 15(D10), X(D12)...are similar as 30 (E8)
- 2. Central Electrical Box Main Circuit Board Block

This block on main circuit board includes fuse, relay and connection interface.

- 3. Wire routes as follows:
 - -----coming from right side on previous page
 - -----going to left side on next page
- 4. Central Electrical Box Main Circuit Board Pins No.

It will be helpful for locating main circuit board circuit, such as E/8 indicates the 8th pin on central electrical box socket E.

- 5. Wire colors and cross-area, square millimeter
- 6. Connection Symbol

This symbol is signed on component.

- 7. Parts or components name (illustrated on left bottom of each page).
- 8. symbol for wire continuing

Number in square form indicates wire number or appropriate extending wire no.

9. Internal wire

Used for locating internal wire. This wire may actually exist or does not exist.

10. Ground point

Indicated by number in circle, and the point is also indicated on circuit.

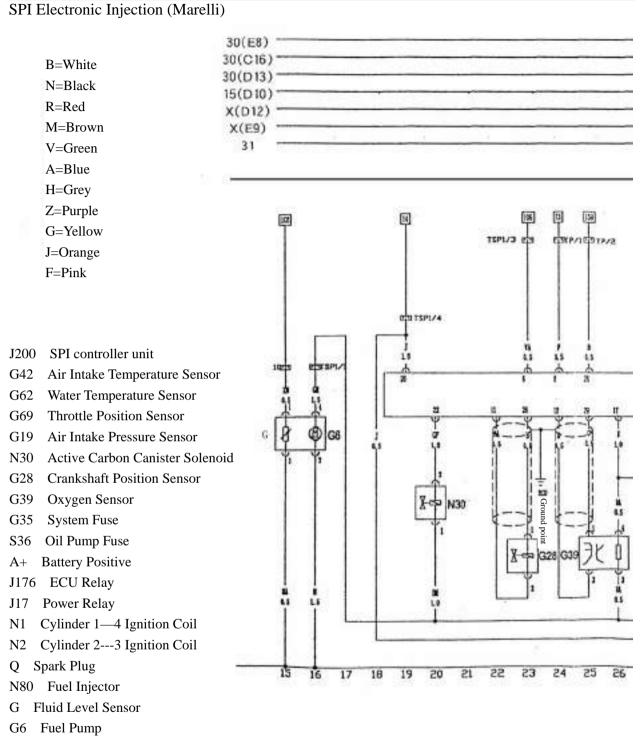
11. Circuit number

Used to locating component and interrupted wire connecting point.

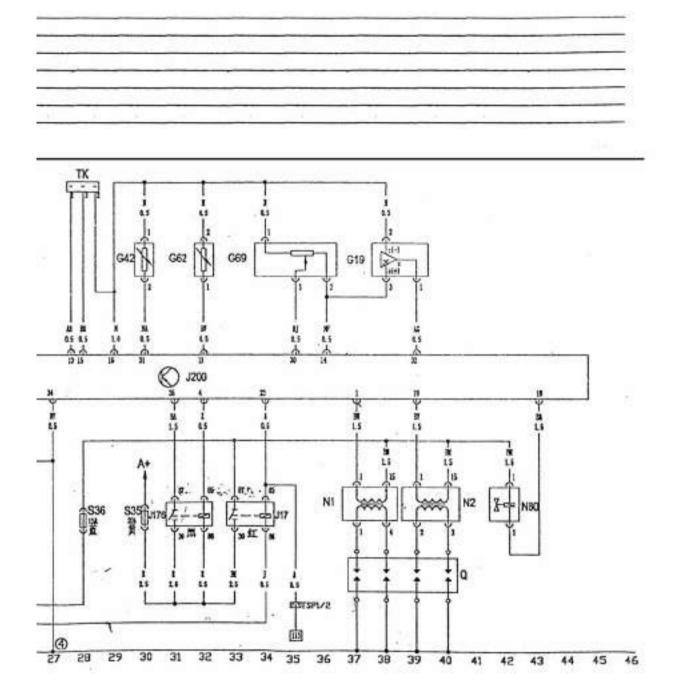
12. Multi-hole connector connecting points Socket terminal numbers are given.

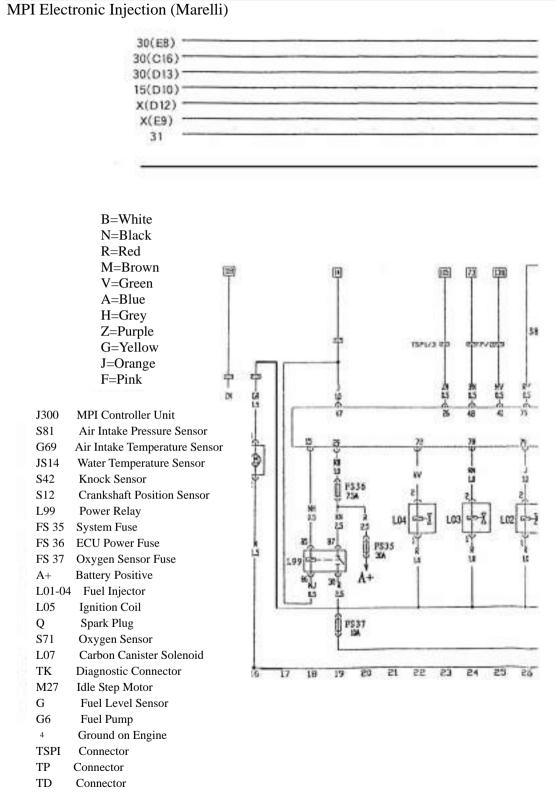
CONTENT

]	Battery, Alternator, Starter Motor, Ignition Switch	01
;	SPI EI System (MARELLI)	02
]	MPI EI(Electronic Injection) (MARELLI)	02
	A/C Unit, Control Head, Cooling System	03
	A/C Switch, Interior Circulate Solenoid, High & Low Pressure Switch	04
	——————————————————————————————————————	
	Sensor	05
]	Radio and 6 Speakers	06
	IP (Instrument Panel) and MFA	
]	Front Fog Light, Cigar Lighter, A/C Panel Indicator	08
	Rear Window Heating System, Dual Pitch Horn, Compressor Magnetic Clutch	
	Wiper, Horn Button, Washer	10
]	Headlight, Front Position Light, Light Relay	11
′	Turn Light, Parking Light Switch, Emergency Warning Relay	12
	Taillight, Side Light, Brake Light	13
]	Light Switch	14
]	Back Light, Rear Fog Light	15
]	Headlight Adjuster	16
-	Front & Rear Interior Light, Luggage Compartment Illumination Light, Sun Visor Light, Lic	ense
]	Plate Light, Door Touch Switch	17
(Central Locking	18
]	Power Mirror	19
	ABS	20
]	Power Glass Lifter Control Unit	21
]	Power Glass Lifter Control Switch	22

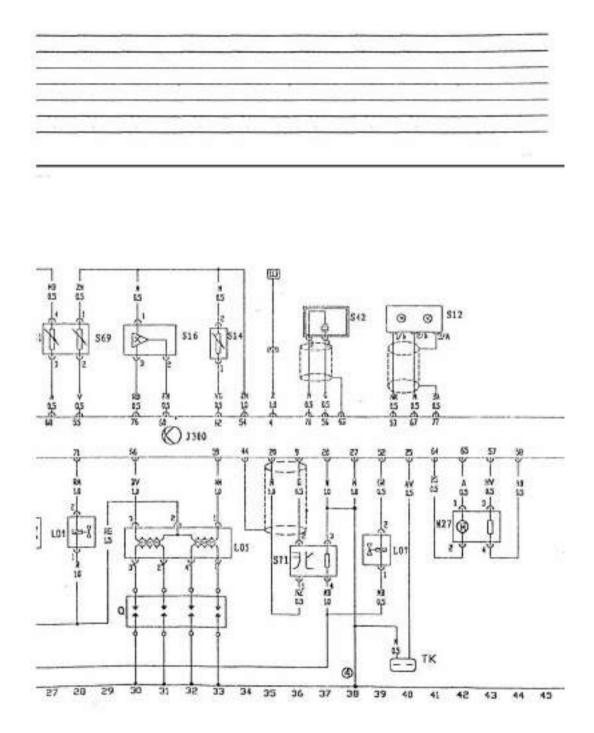


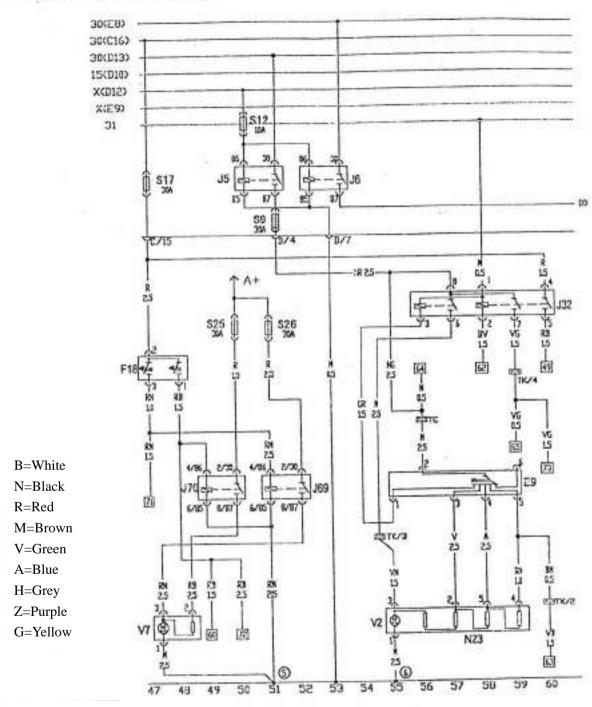
- TK Diagnostic Socket
- (4) Ground On Engine





Note: ECU CONNECTOR 1-(1-52 PIN) ECU CONNECTOR 2-(53-80 PIN)





A/C Unit, Control Head, Cooling System

A+ battery positive

E9 blower switch

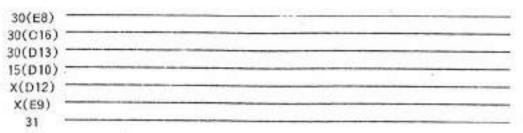
F18 thermo switch

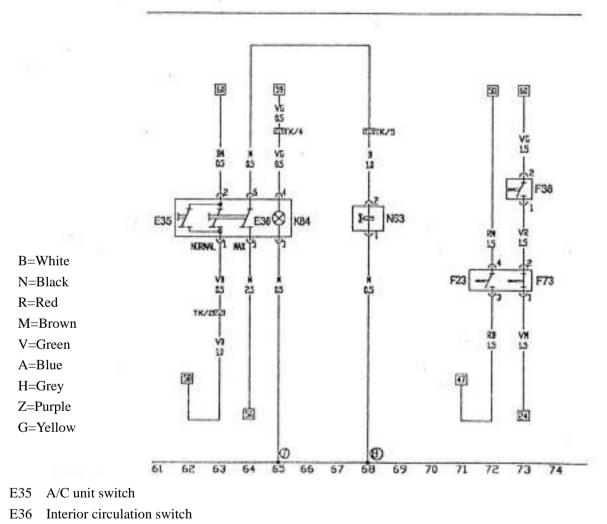
N23 blower in-line speed

- regulator resistance
- V2 blower
- V7 fan motor
- J32 A/C relay
- J69 Cooling fan high speed relay
- J70 Cooling fan low speed relay

- J5 A/C blower relay (in electrical box)
- J6 Rear Window preheat relay
 - 5 ground, in wiring harness in boot I
 - 6 ground, on ground carrier beside central electrical box

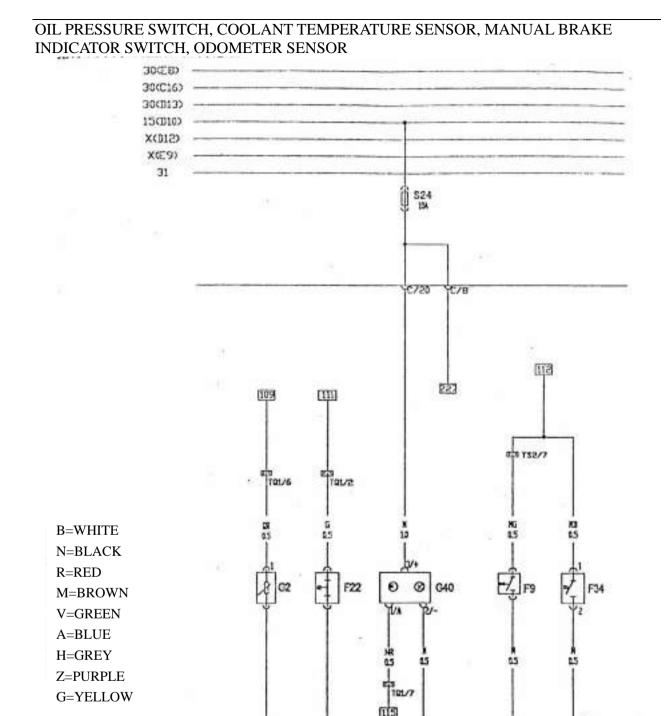
A/C UNIT SWITCH, INTERIOR CIRCULATION SOLENOID, HIGH & LOW PRESSURE SWITCH





- K84 A/C operating illumination switch
- N63 Interior circulation solenoid
- F38 Outside temperature switch
- F23 High pressure switch
- F73 Low pressure switch

- 7 8 Main circuit ground
- TK 5 holes connector



- G2 Coolant temperature sensor
- F22 Oil pressure switch (low pressure)

75

76

78

- F9 Manual brake indicator switch
- F34 Brake fluid level warning switch
- 9 ground, on engine cylinder

85

83

10 ground connection, in headlight wiring harness

84

85

86

87

88

TQ1 10 holes connector

81

BO

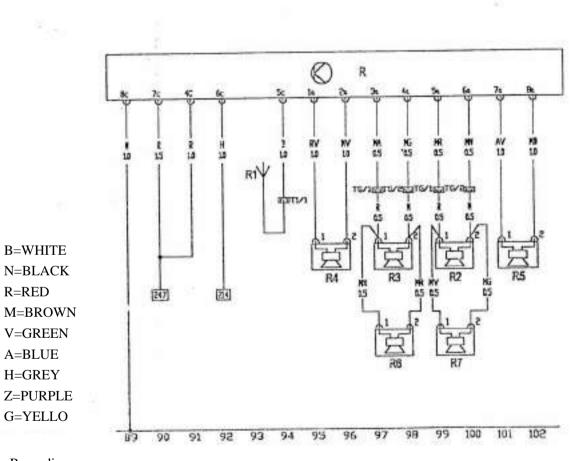
79

TS2 10 holes match connector

G40 odometer sensor

RADIO AND 6 SPEAKERS

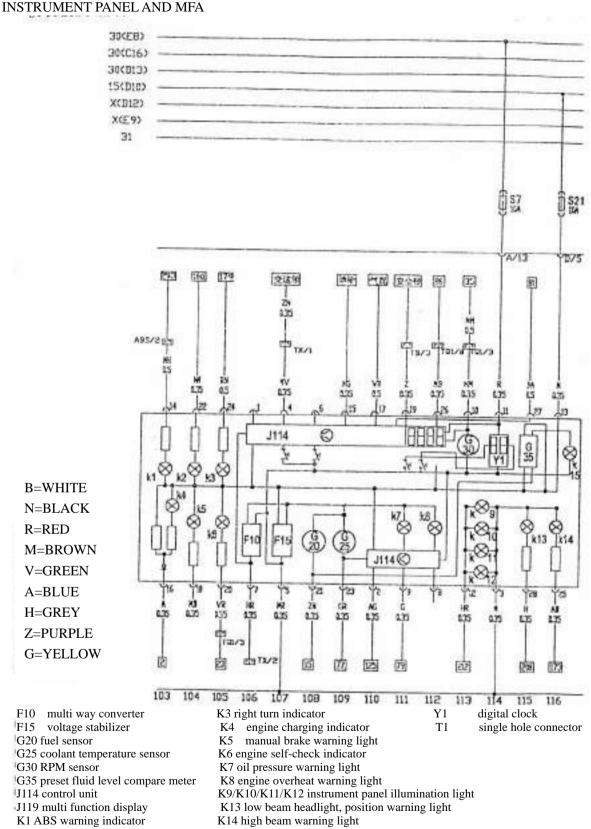




R radio

- R2 front left speaker
- R3 front right speaker
- R4 right rear speaker
- R5 left rear speaker
- R6 left front speaker
- R7 right front speaker
- R1 antenna

- T8 8 holes connector
- T1 single hole connector

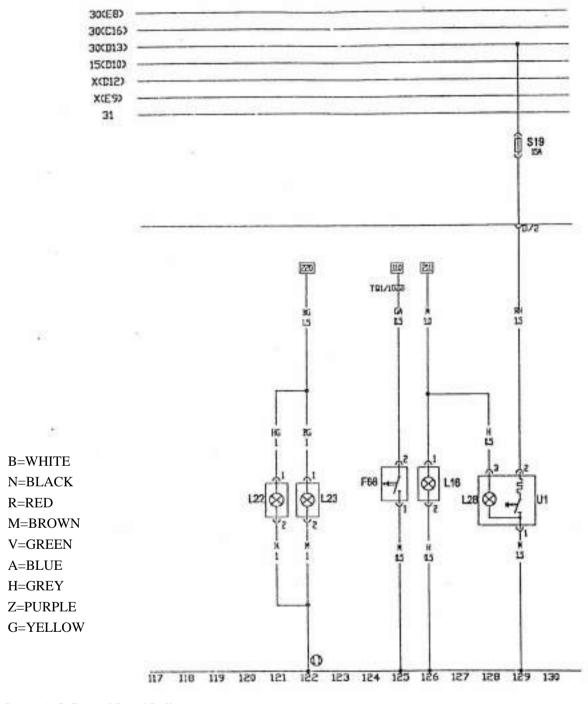


K2 left turn indicator

K15 fuel warning light

CIRCUIT



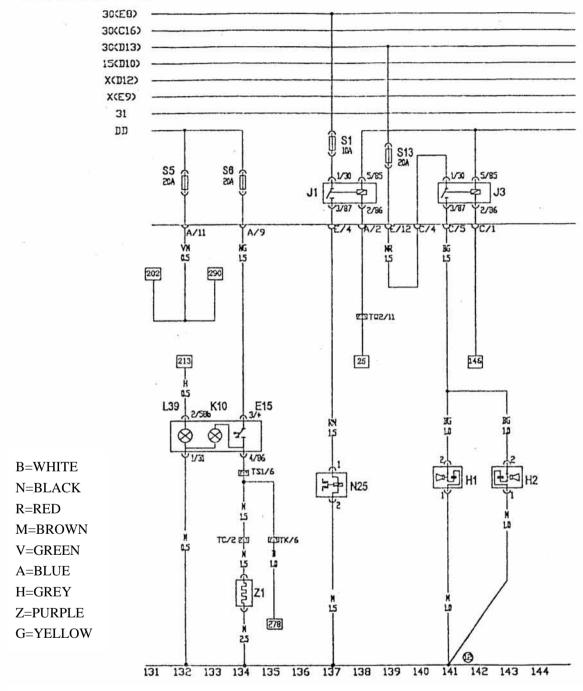


L16 A/C Control Panel Indicator

- L22 Left Front Fog Light
- L23 Right Front Fog Light
- F66 Coolant Level Switch
- L28 Cigar Lighter Illumination Light
- U1 Cigar Lighter

11 Ground, In headlight wiring harness

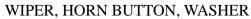


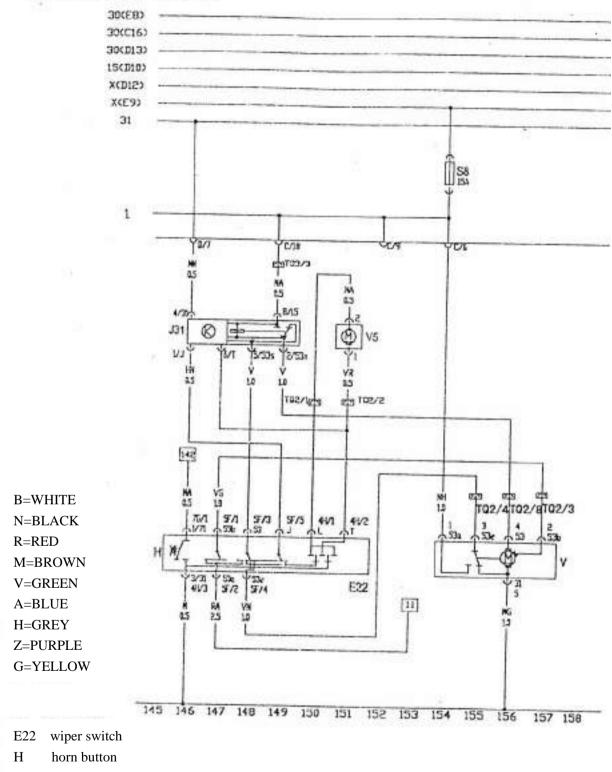


- J1 Idle Up Relay (in electrical box)
- J3 Dual Pitch Horn
- J39 Rear Window Heating Switch Illumination Light
- K10 Rear Window Heating Indicator
- E15 Rear Window Heater Switch
- H1(2) Dual Pitch Horn

12 Ground point, in dual tone horn wiring harness

Z1 Rear Window Heater

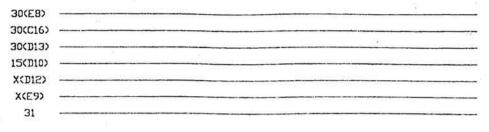


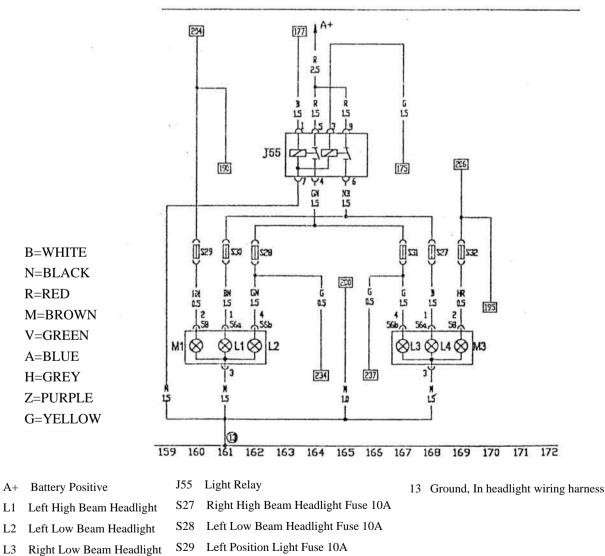


J31 intermittent wiper relay

- S5 fuse 15A
- V wiper motor
- V5 washer

HEADLIGHT, FRONT POSITION LIGHT, LIGHT RELAY





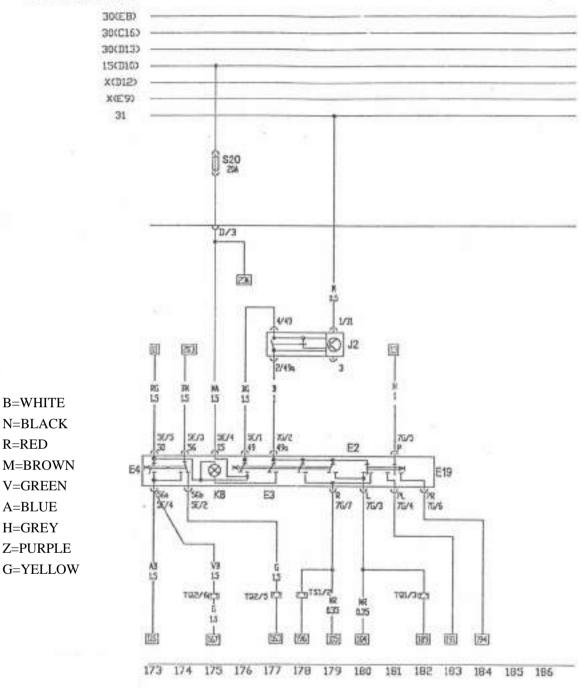
- L4
- **Right Position Light** M3
- S29

S31

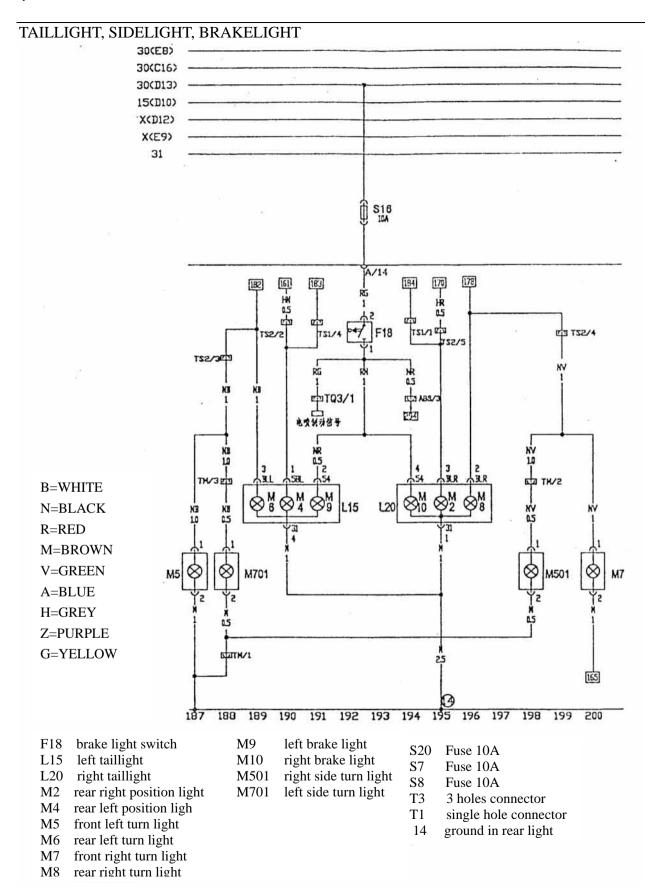
- S30 Left High Beam Headlight Fuse 10A Right High Beam Headlight
- Left Position Light M1
- S32 Right Position Light Fuse 10A

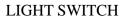
Right Low Beam Headlight Fuse 10A

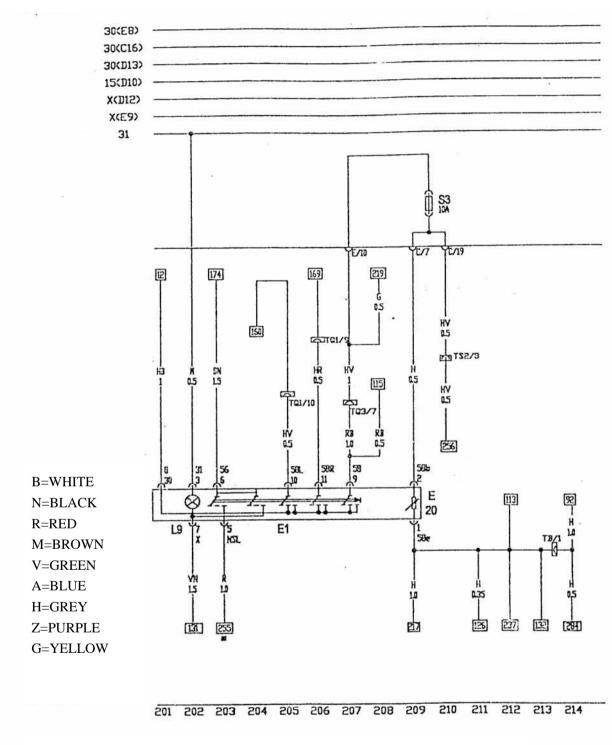




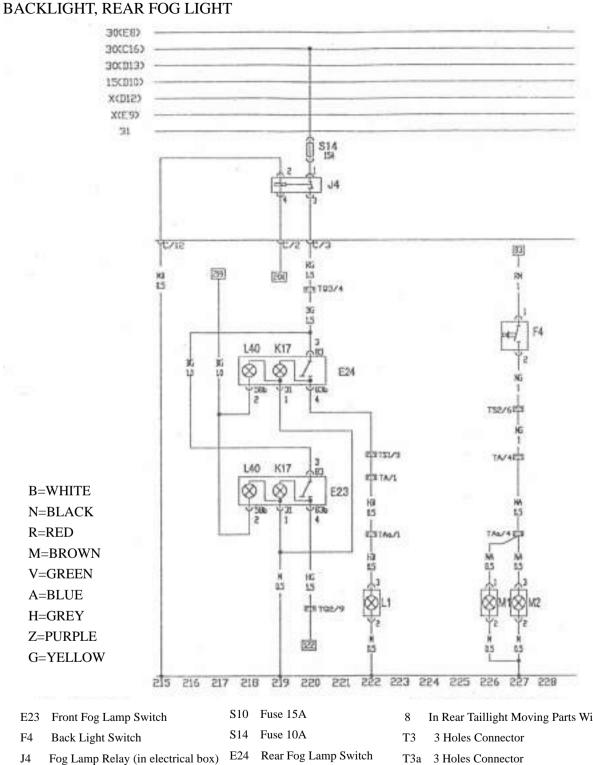
- E2 Turn Light Switch
- E3 Emergency Warning Light Switch
- E4 Dimmer and Turn Light Switch
- E19 Parking Light Switch
- J2 Emergency Warning Light Relay
- K6 Emergency Warning Light
- S17 Fuse 10A







- E1 Light Switch
- E20 Panel indicator / instruments illumination light variable resistance
- L9 Panel indicator
- S3 Fuse 10A

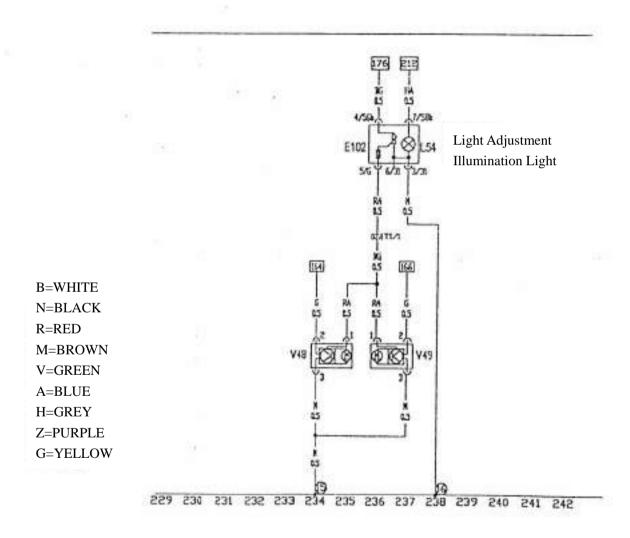


- K17 Rear Fog Lamp Indicator
- L1 Rear Fog Lamp
- L40 Front & Rear Fog Lamp Switch Illumination Light
- M1 Left Back Light
- M2 **Right Back Light**

- In Rear Taillight Moving Parts Wiring
- T3a **3 Holes Connector**
- T2 2 Holes Connector
- T1 Single Hole Connector
- Single Hole Connector T1a

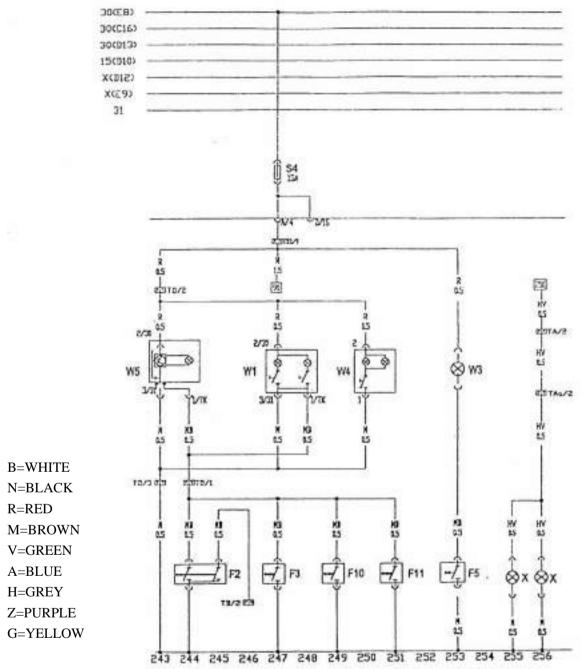






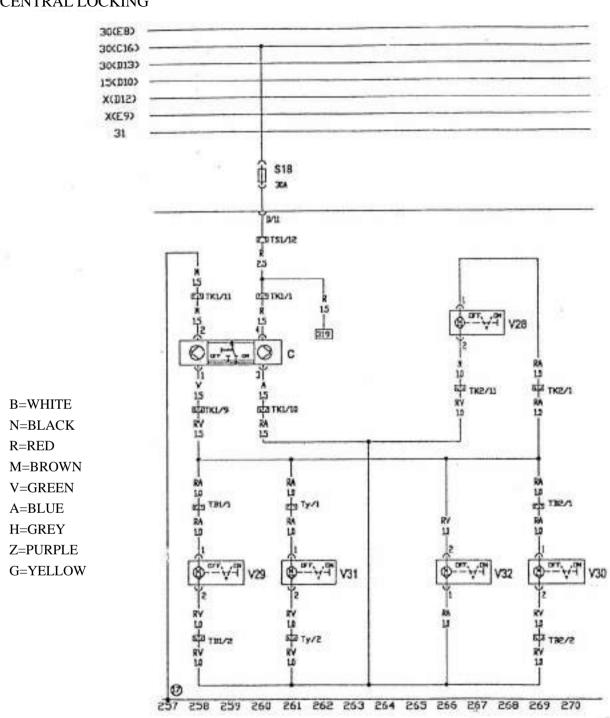
- E102 Headlight Height Adjustment Switch
- L54 Light Adjustment Illumination Light
- V48 Left Front Headlight Adjustment Motor
- V49 Right Front Headlight Adjustment Motor
- 16 Ground, Located Beside Central Electrical Box
- 15 Ground, at headlight
- T1 Single Hole Connector





- F2 Left Front Door Touch Switch
- F3 Right Front Door Touch Switch
- F5 Luggage Compartment Illumination Light Switch
- F10 Left Rear Door Touch Switch
- F11 Right Rear Door Touch Switch
- T8 2 Holes Connector
- TD 4 Holes Connector

- TAa 2 Holes Connector, on left side of luggage compartment
- W1 Rear Interior Ceiling Lamp
- W3 Luggage Compartment Light
- W4 Sun Visor Light
- W5 Front Interior Ceiling Lamp With Delay Close
- X License Plate Lamp

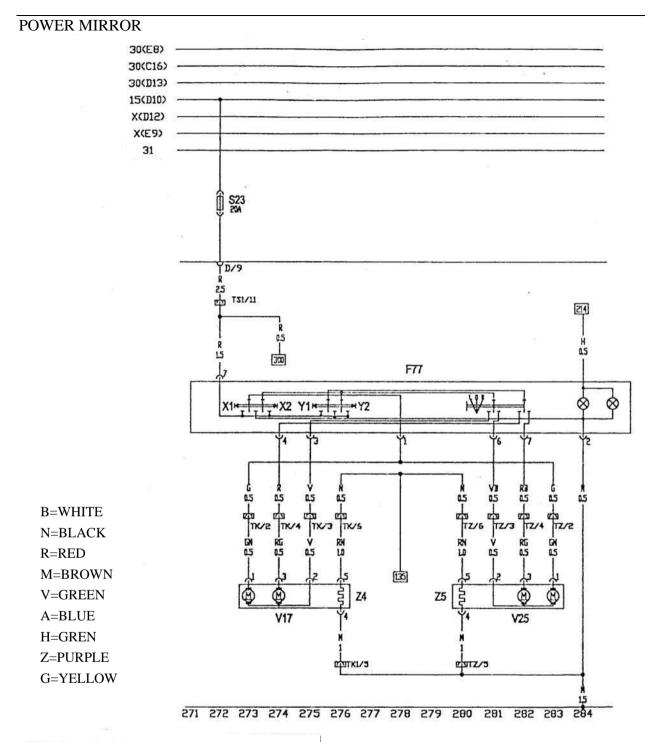


CENTRAL LOCKING

- С Central Locking Control Unit (in left front door)
- V28 Right Front Door Lock Control Motor
- V29 Left Rear Door Lock Control Motor
- V30 Right Rear Door Lock Control Motor
- V31 Luggage Compartment Lock Control Motor
- V32 Fuel Tank Door Control Motor

- 4 Holes Connector (left B pillar side) TB1
- TB2 4 Holes Connector (right B pillar side)
- TK1 12 Holes Connector (left A pillar Side)
- TK2 12 Holes Connector (right A pillar Side)
- 2 Holes Connector (Left C pillar side) Ty
- 17 Ground Point Beside Central Electrical

https://www.automotive-manuals.net/



- F77 Mirror Switch
- X1 Left Adjust
- X2 Right Adjust
- Y1 Up Adjust
- Y2 Down Adjust
- V17 Left Mirror Control Motor

Z4 Left Mirror Defogger

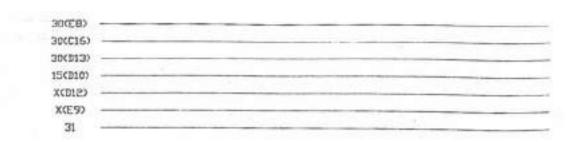
Z5 Right Mirror Defogger

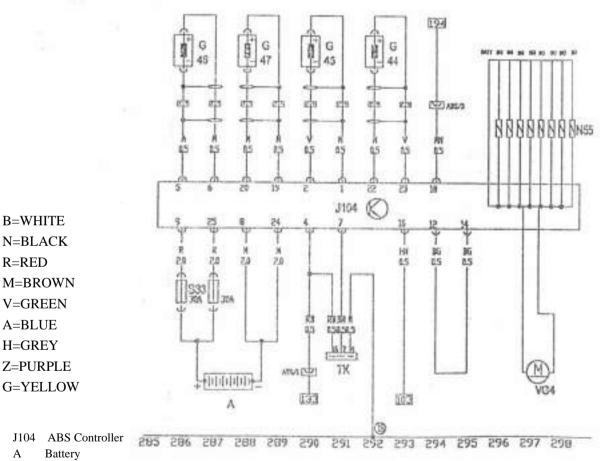
V25 Right Mirror Control Motor

TK1 12 Holes Connector (left A pillar side)TK2 12 Holes Connector (right A pillar side)TZ 2 Holes Connector (beside central electrical box)

https://www.automotive-manuals.net/







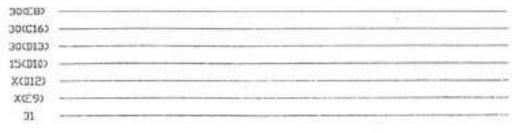
18 Ground point, at ground carrier on central electrical box

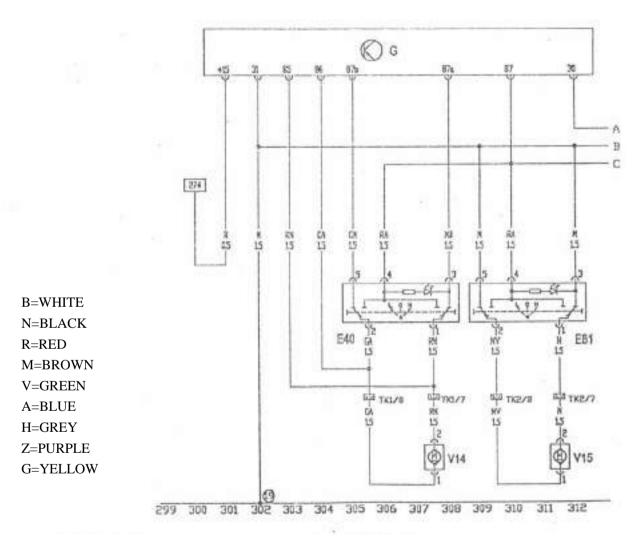
ABS Solenoid N55

А

- VG4 ABS Hydraulic Pump
- G44 Right Rear Wheel RPM Sensor
- G45 Left Front Wheel RPM Sensor
- G46 Left Rear Wheel RPM Sensor
- G47 Right Front Wheel RPM Sensor
- S33 ABS Solenoid Valve Power Fuse
- S34 ABS Hydraulic Pump Power Fuse
- TK Diagnosis Connector

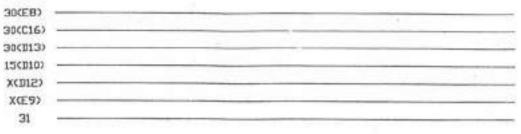


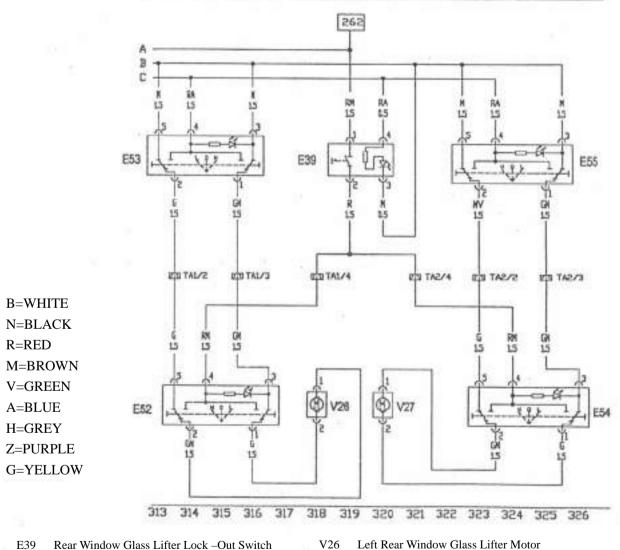




- G Window Glass Lifter Module
- E40 Left Front Window Lifter Switch
- E81 Right Front Window Lifter Switch
- V14 Left Front Window Lifter Motor
- V15 Right Front Window Lifter Motor
- 19 Beside Central Electrical Box
- TK1 12 Holes Connector (Left B Pillar Side)
- TK2 12 Holes Connector (Right B Pillar Side)

POWER GLASS LIFTER CONTROL SWITCH





- E52 Left Rear Dorr Upper Window Lifter Switch
- E54 Right Rear Dorr Upper Window Lifter Switch
- E53 Left Rear Window Glass Lifter Switch
- E55 Right Rear Window Glass Lifter Switch
- V27 Right Rear Window Glass Lifter Motor
- 4 Holes Connector Glass (Left B Pillar Side) TA1
- TA2 4 Holes Connector Glass (Right B Pillar Side)