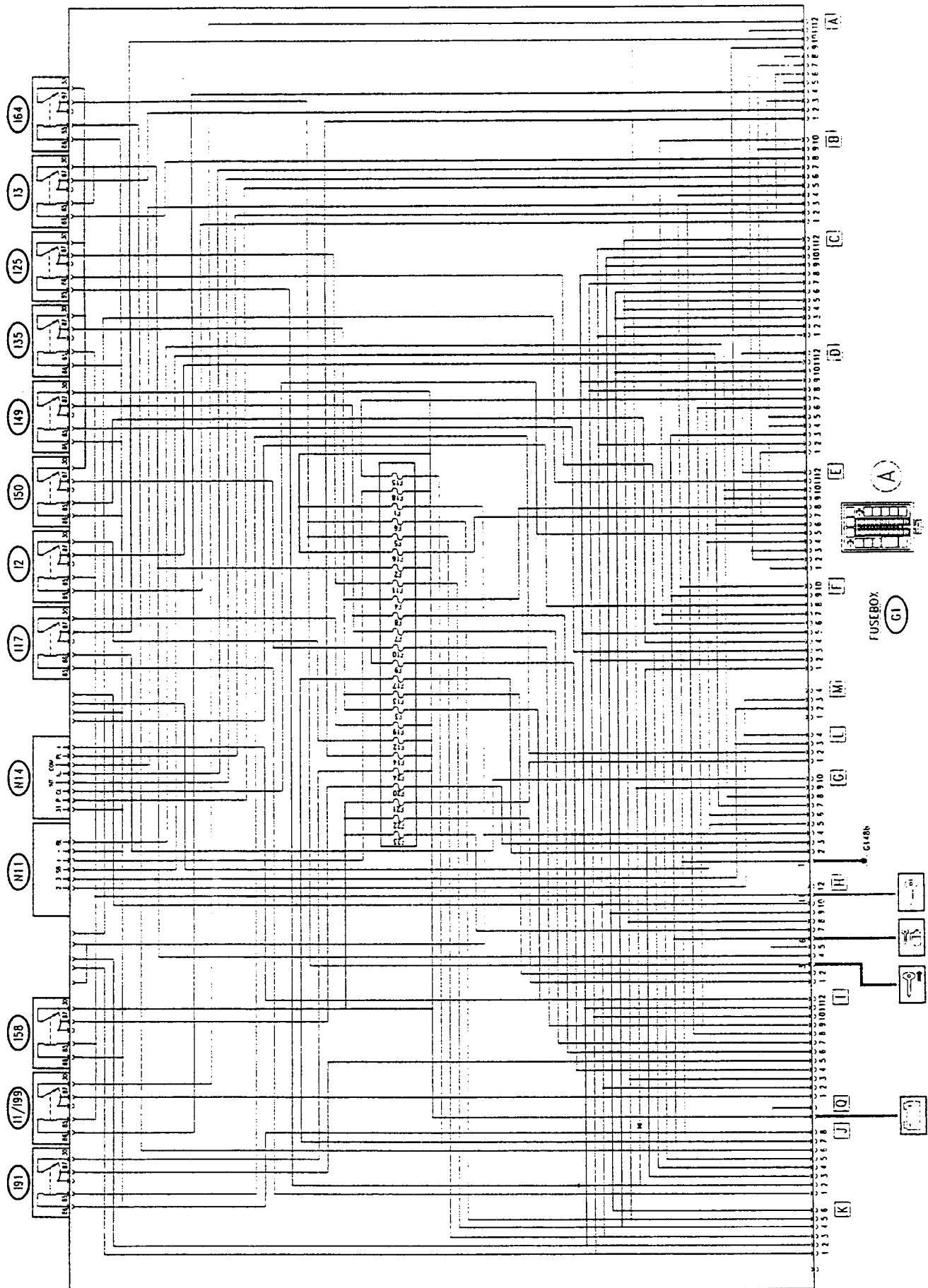


FUSEBOX

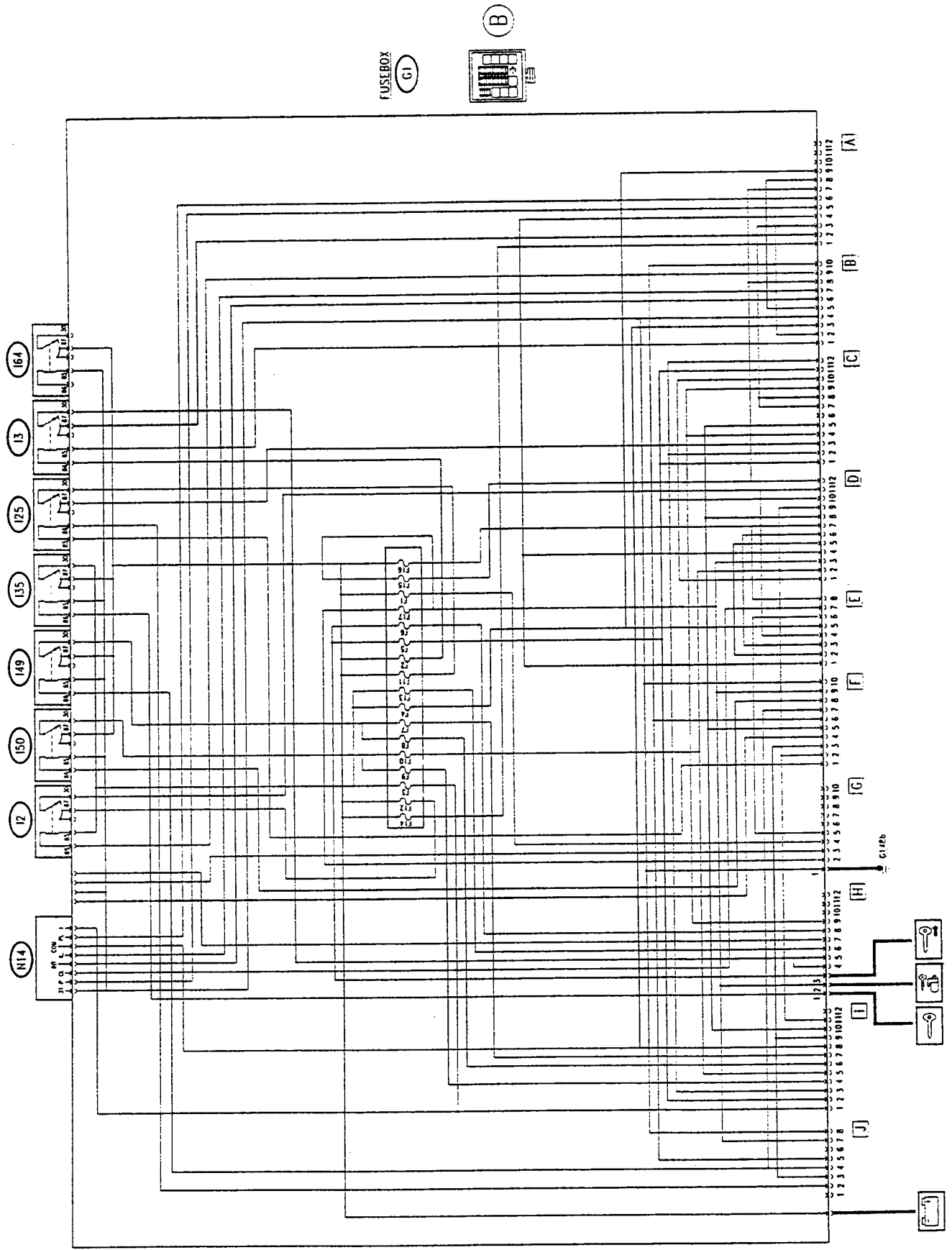
INDEX

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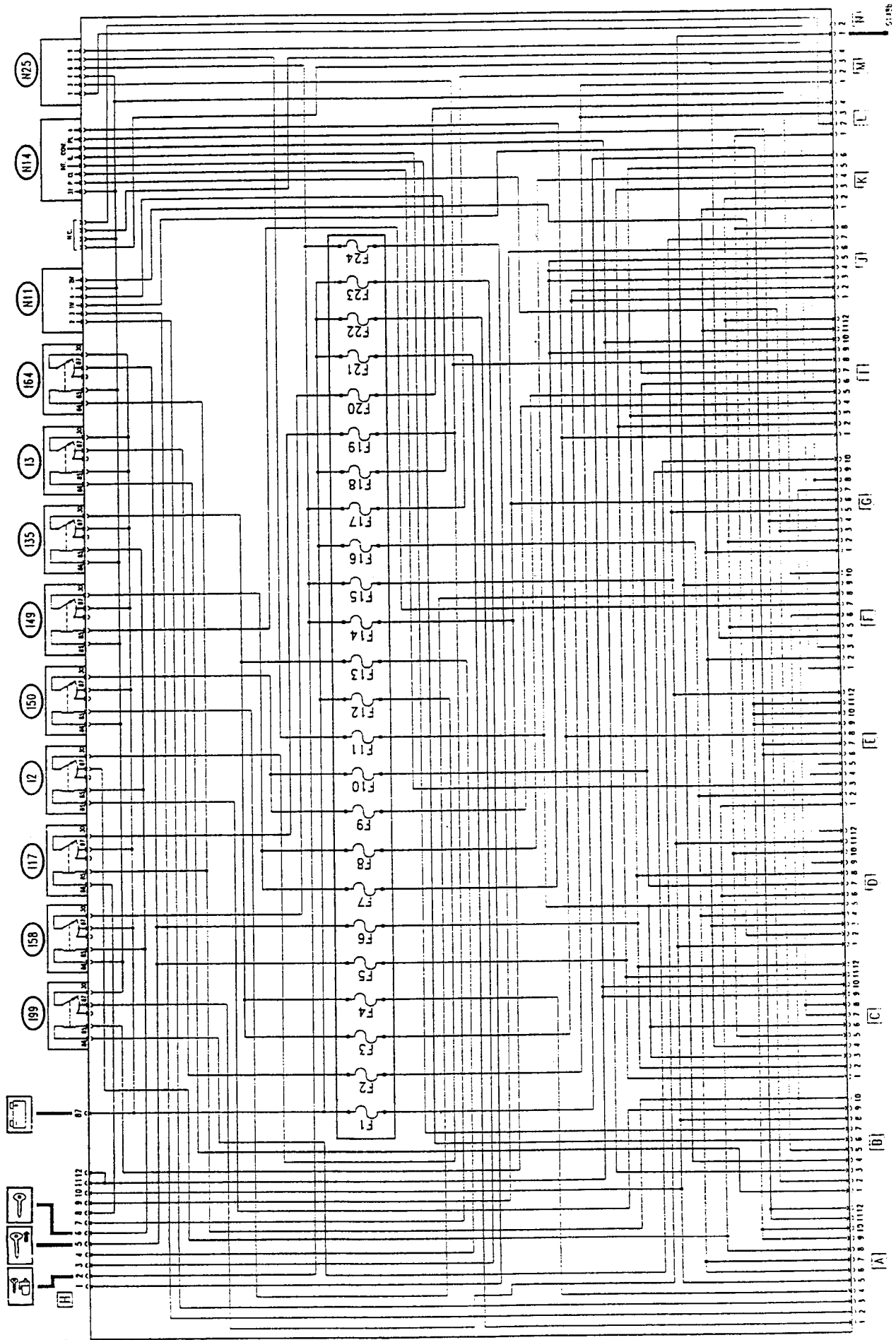
WIRING DIAGRAM Box "A" ("high" versions)



WIRING DIAGRAM Box "B" ("low" versions)



WIRING DIAGRAM Box "C"



GENERAL DESCRIPTION

This section describes the complete printed circuit that makes the connections inside the fusebox G1.

In the various diagrams referring to the individual systems and circuits only the lines associated with the case under examination are shown: this chart gives a complete, overall view of the entire fusebox G1.

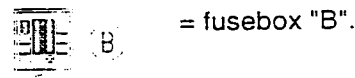
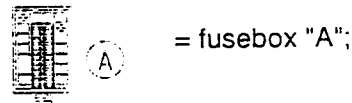
The fusebox houses a number of relays and other devices, shown here with the corresponding codes, and the fuses (F1,....., F24).

NOTE: not all the output pins of the box G1 are actually connected for all versions of the car: some lines therefore may be found to be redundant though they will be present on the printed circuit.

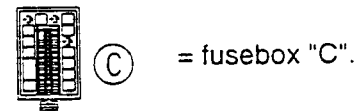
Next to the schematic drawings of the connectors a list of output signals from the different pins is given: this simplifies for instance faultfinding work on the different circuits affected. (NOTE: the letters N.C. indicate pins connected inside the fusebox but not used for the present versions of the car).

Two different fuseboxes have been used, the first one called BOX "A" for the "high" versions, i.e. fitted with a number of auxiliary accessories, and the second one known as BOX "B" for the "lower" versions: it is simpler and only contains the indispensable circuit.

Whenever necessary, all the wiring diagrams shown in this Group show the two different fuseboxes using the following symbols:

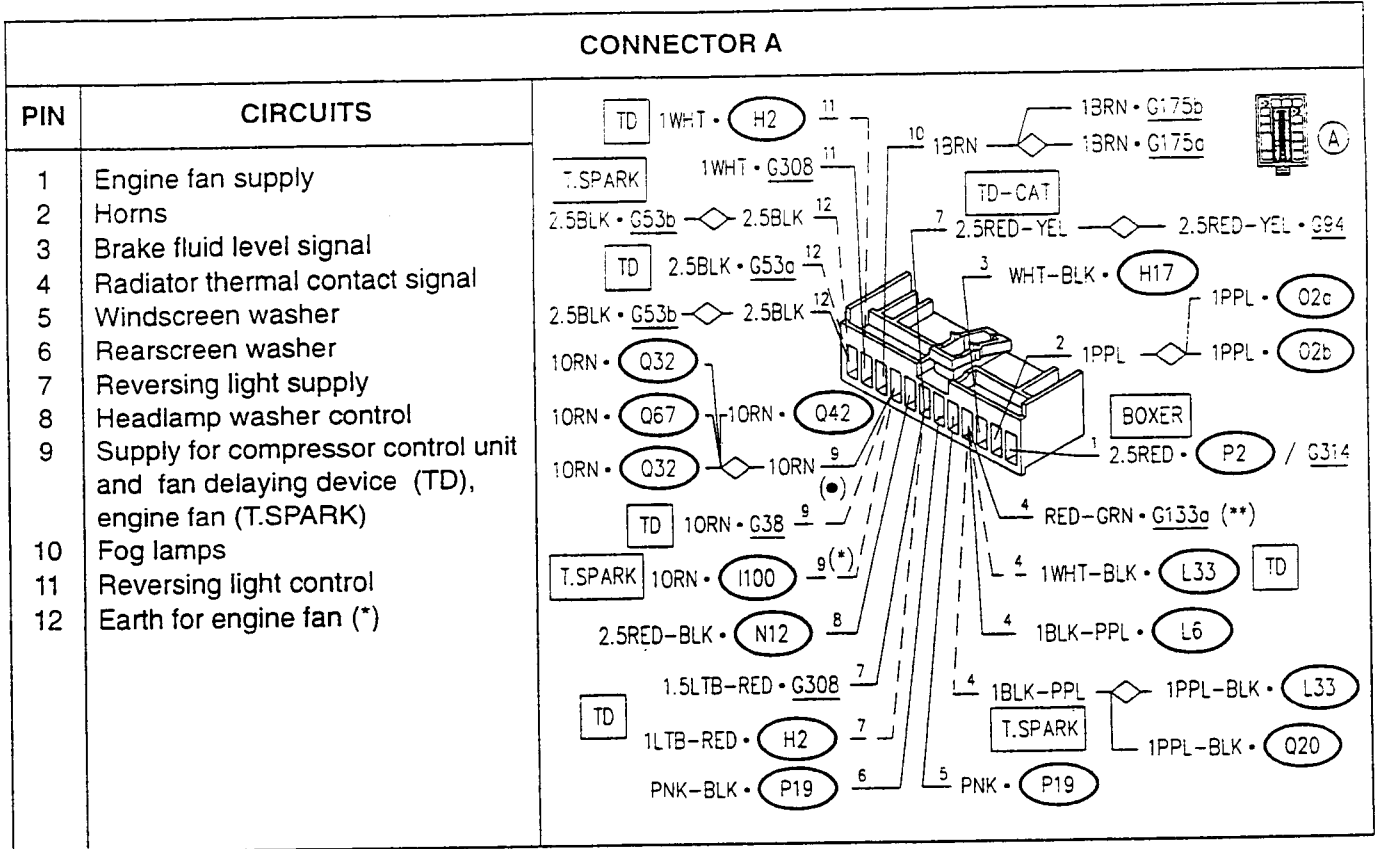


From chassis no. ___ the above two boxes have been replaced by a new box "C" used for all versions.

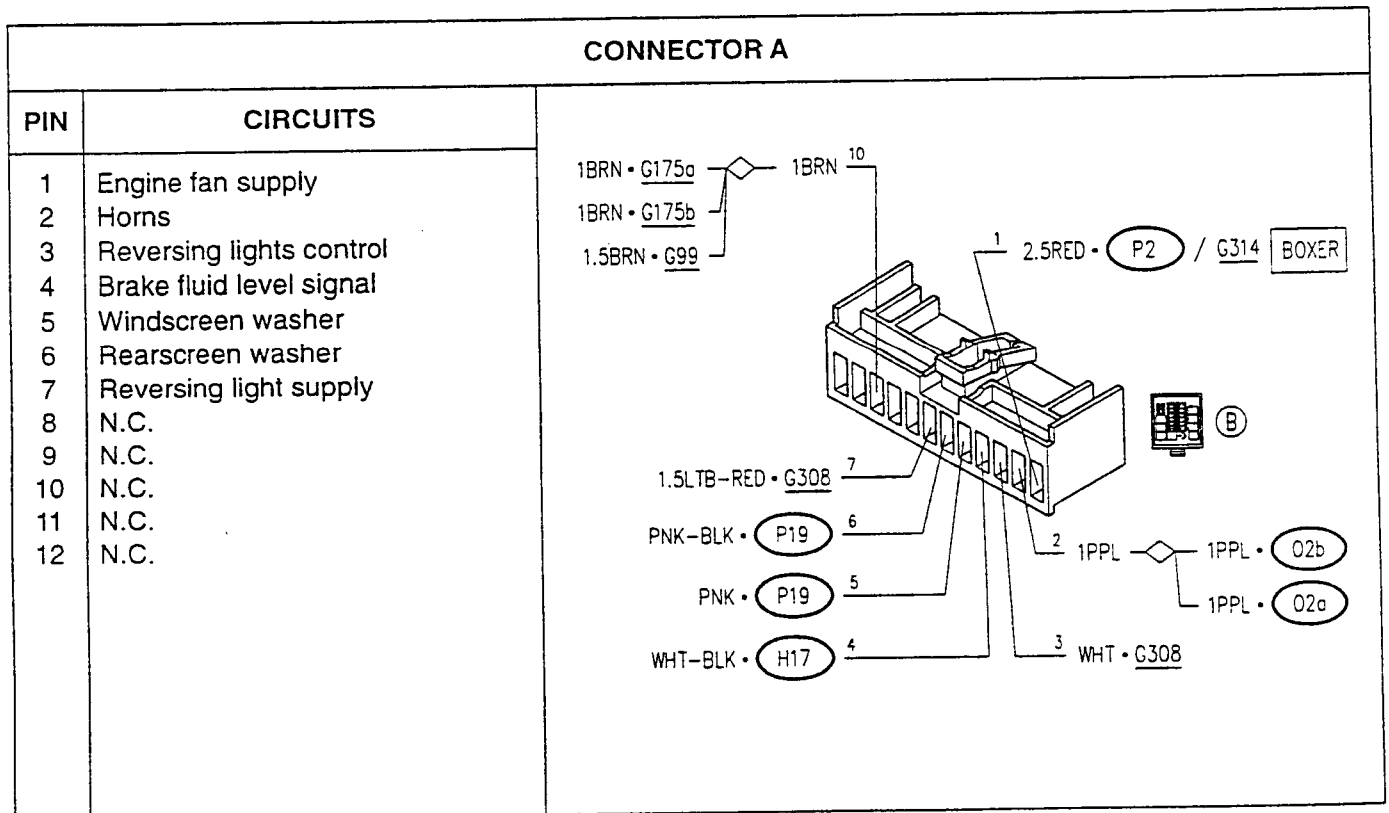


SUPPLY TO FUSEBOX	
PIN	CIRCUITS
-	Supply from terminal board

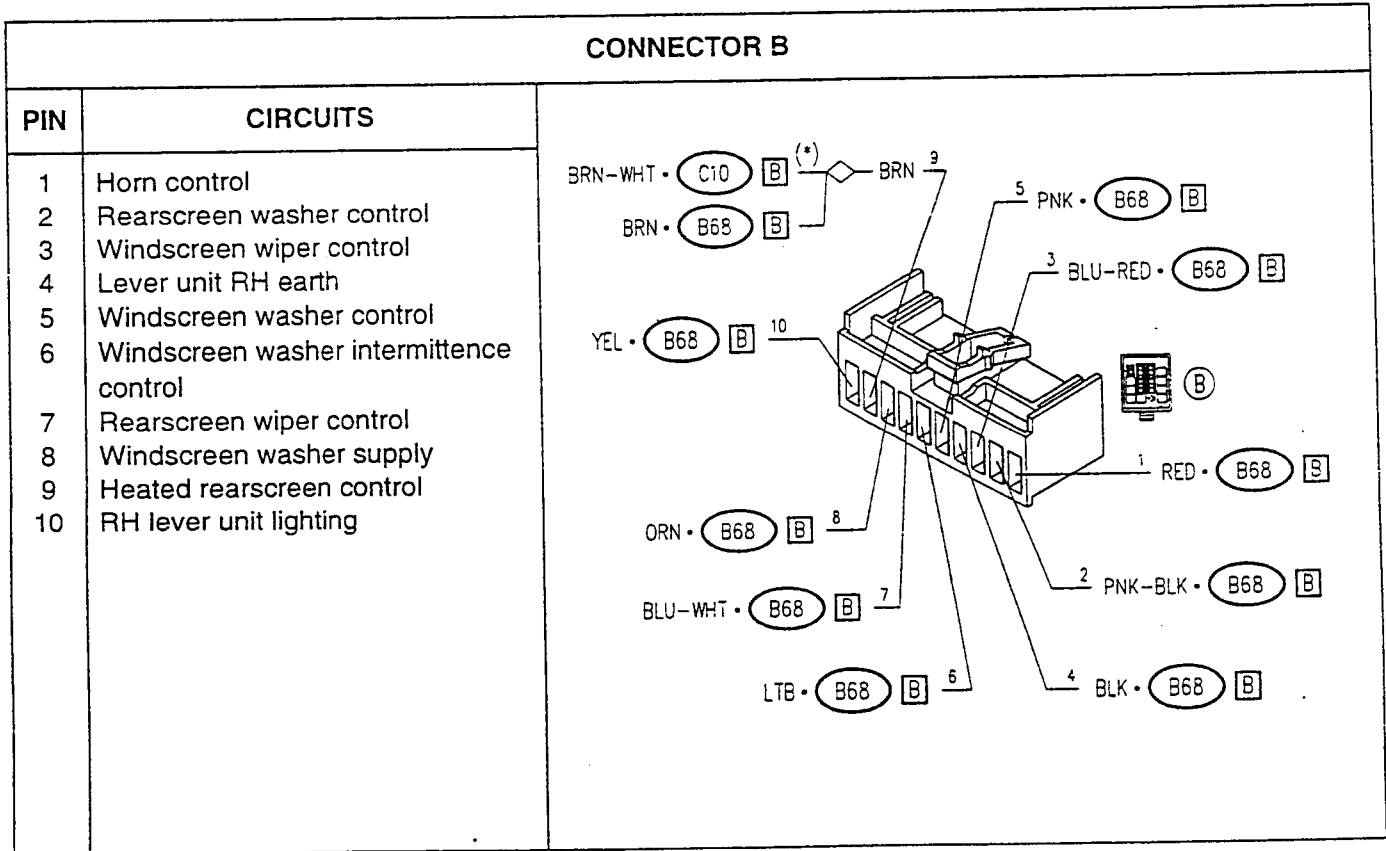
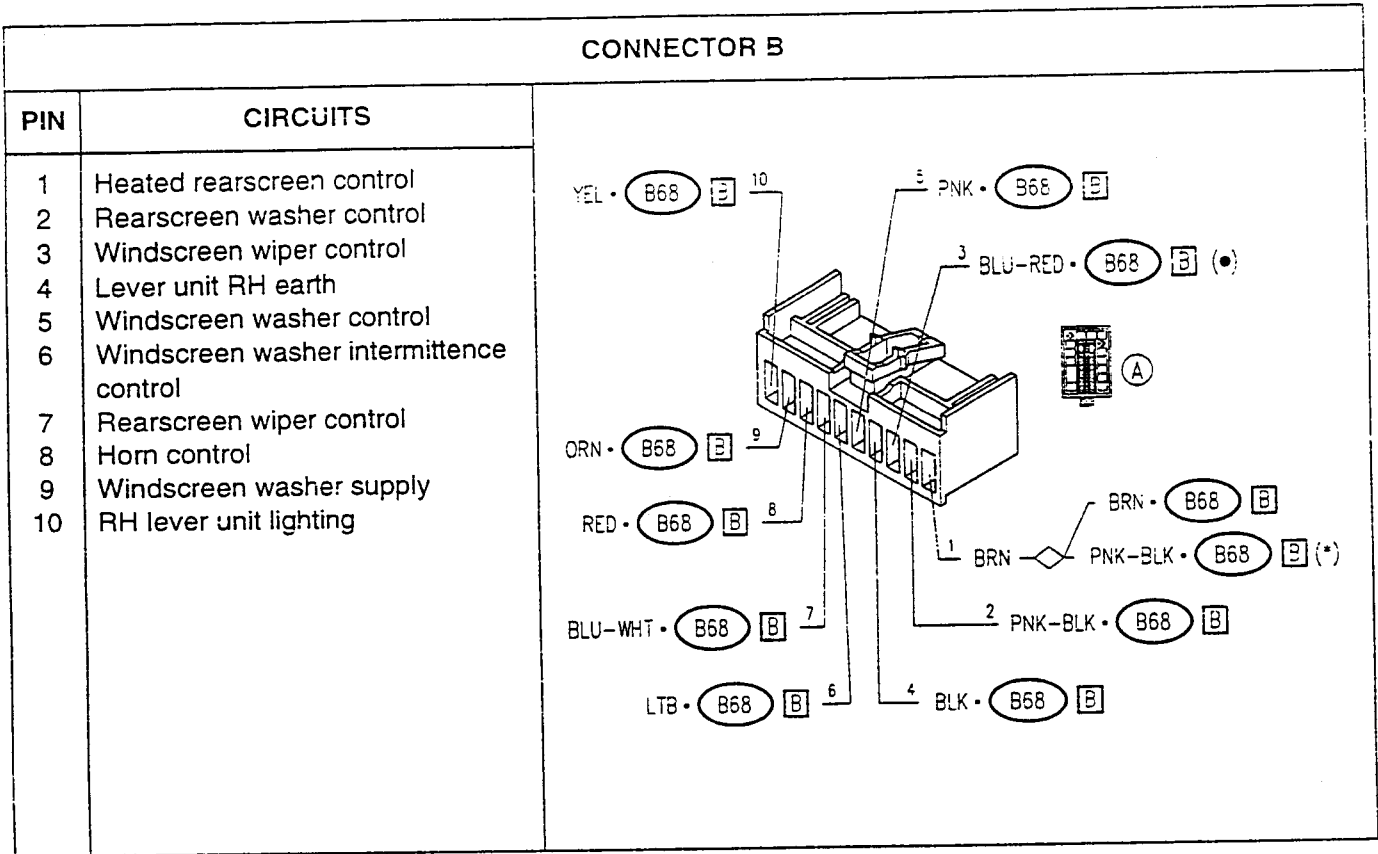
10RED • G56



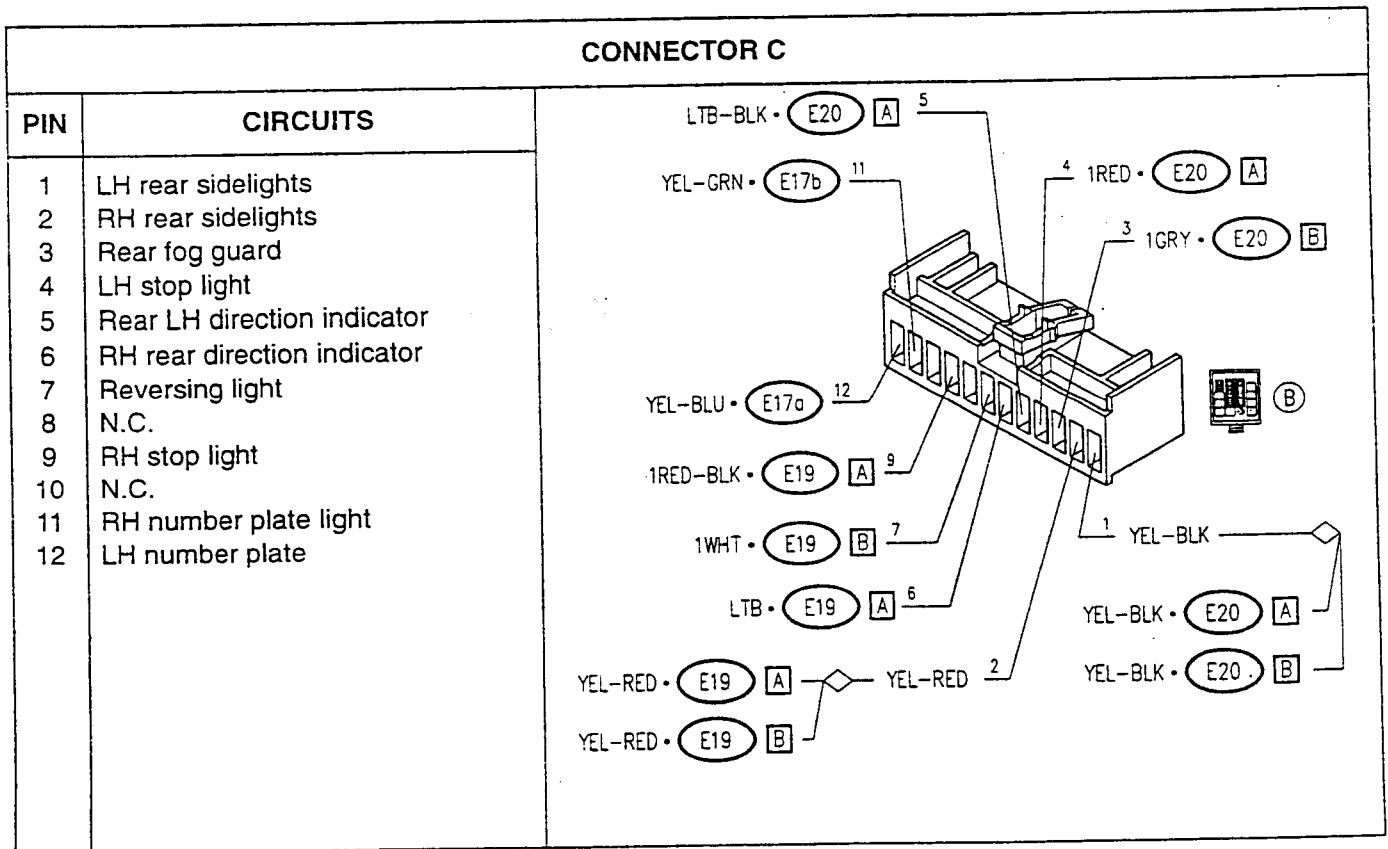
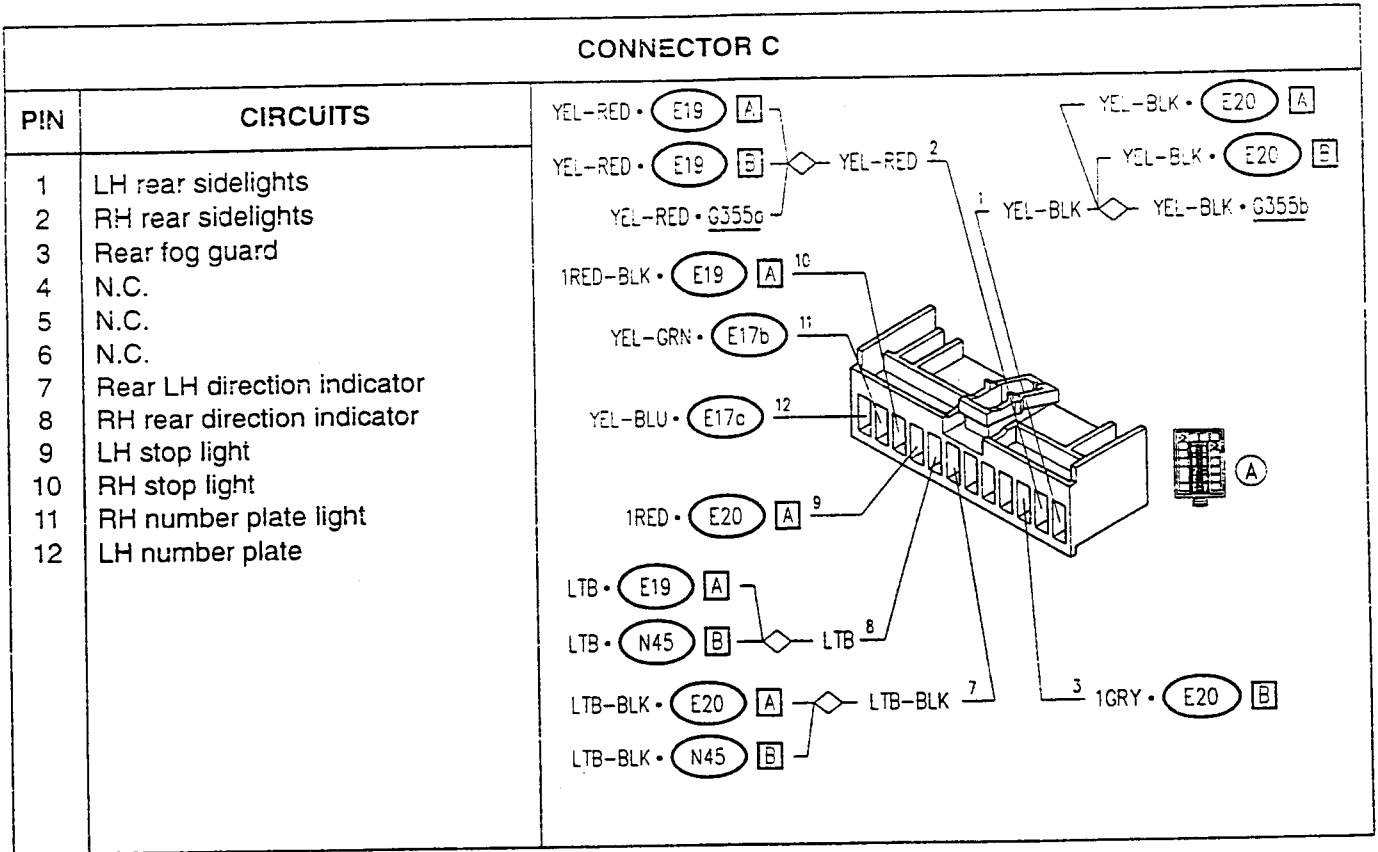
(•) TD version, from chassis no....
 (*) also Boxer from chassis no. 4065018



(•) TD version, from chassis no....
 (**) from M.Y. '97

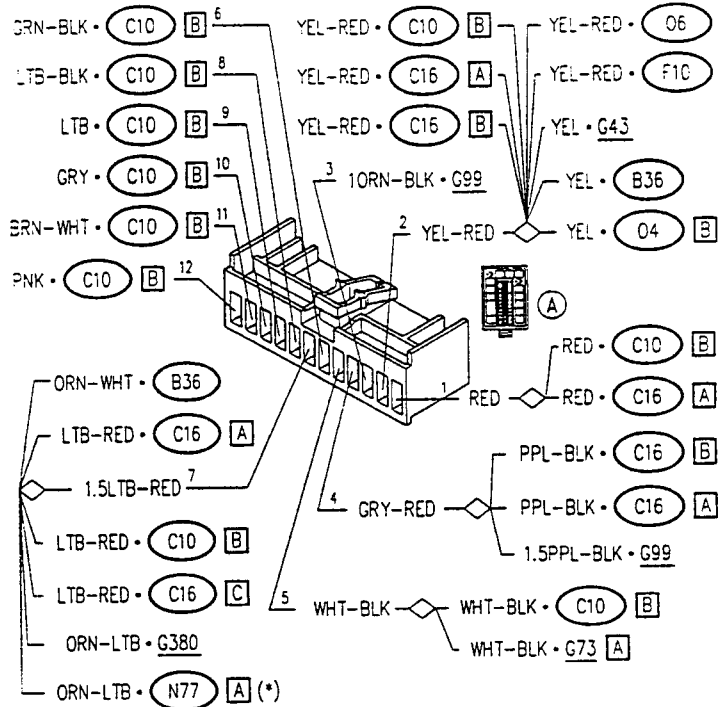


(•) only up to M.Y. '96
 (*) from M.Y. '97



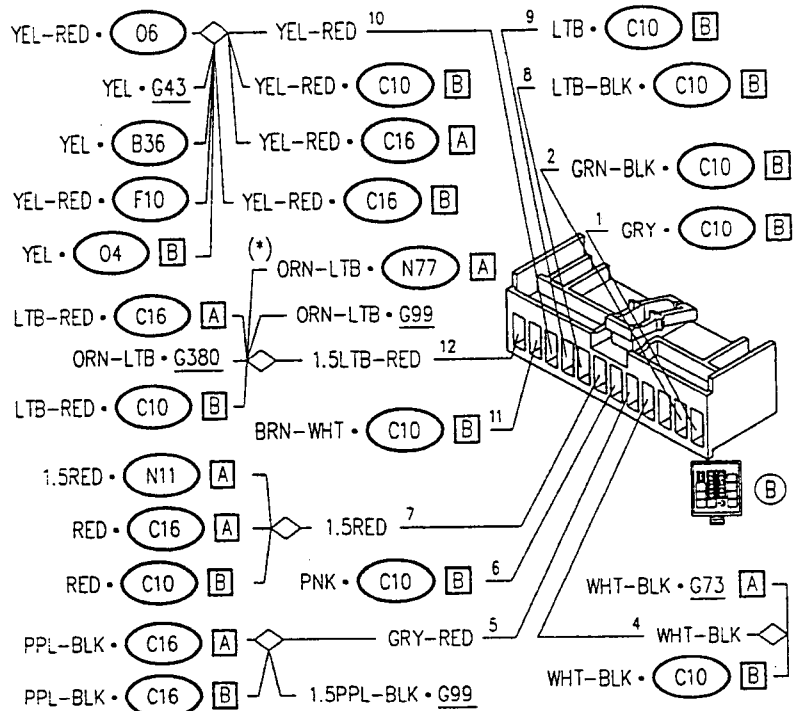
CONNECTOR D

PIN	CIRCUITS
1	Supply to instr.cluster, check panel (direct)
2	lighting for controls, indicators etc., sidelights warning light
3	Supply to anti-theft device & door lock relay door locks (key-operated)
4	Controlled earth
5	Handbrake/brake fluid warning light
6	High beam warning light
7	Supply to instr.cluster, check panel, wing mirror adj., airbag, ALFA ROMEO CODE control unit (*) (key-operated)
8	LH direction indicator warning light
9	RH direction indicator warning light
10	RH fog guard warning light
11	Heated rearscreen warning light
	Fuel level gauge

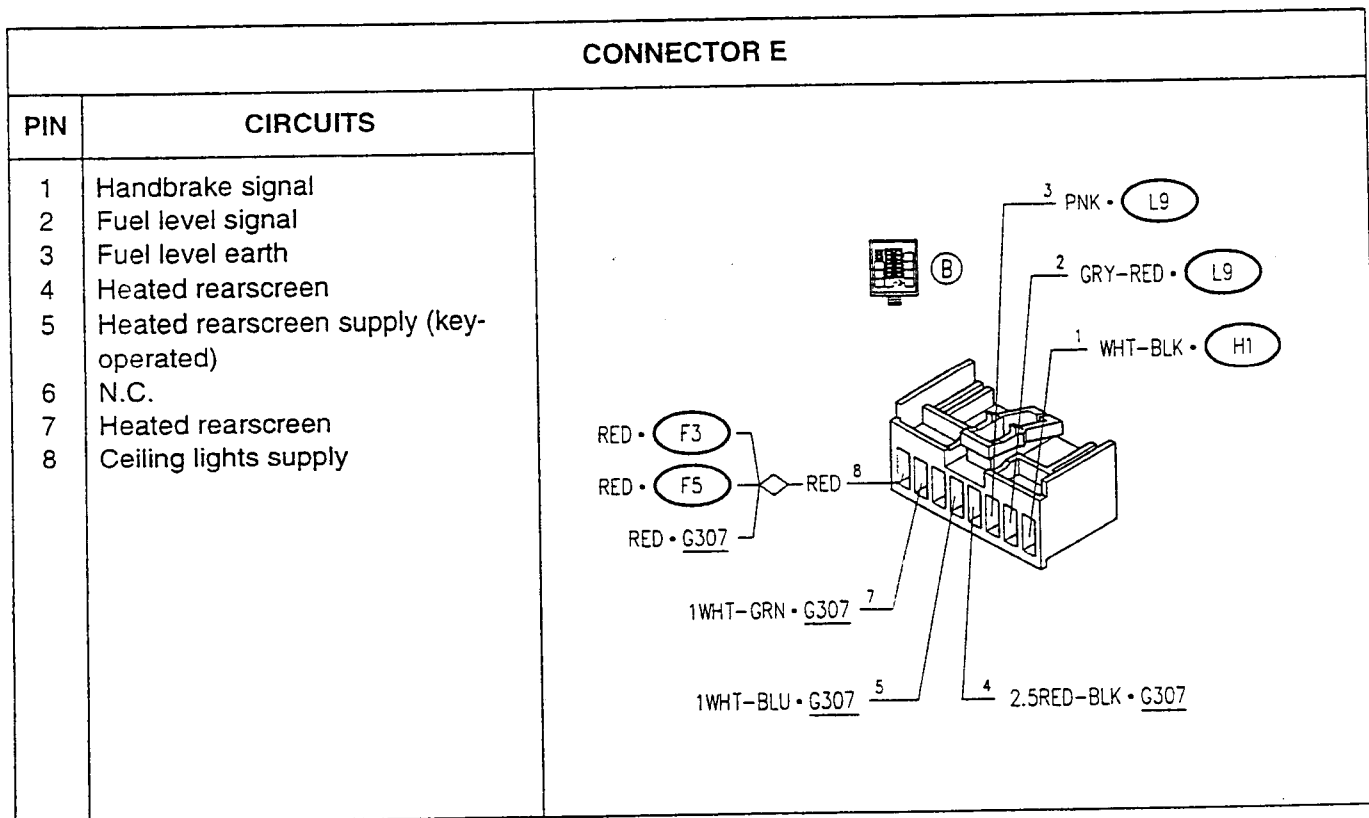
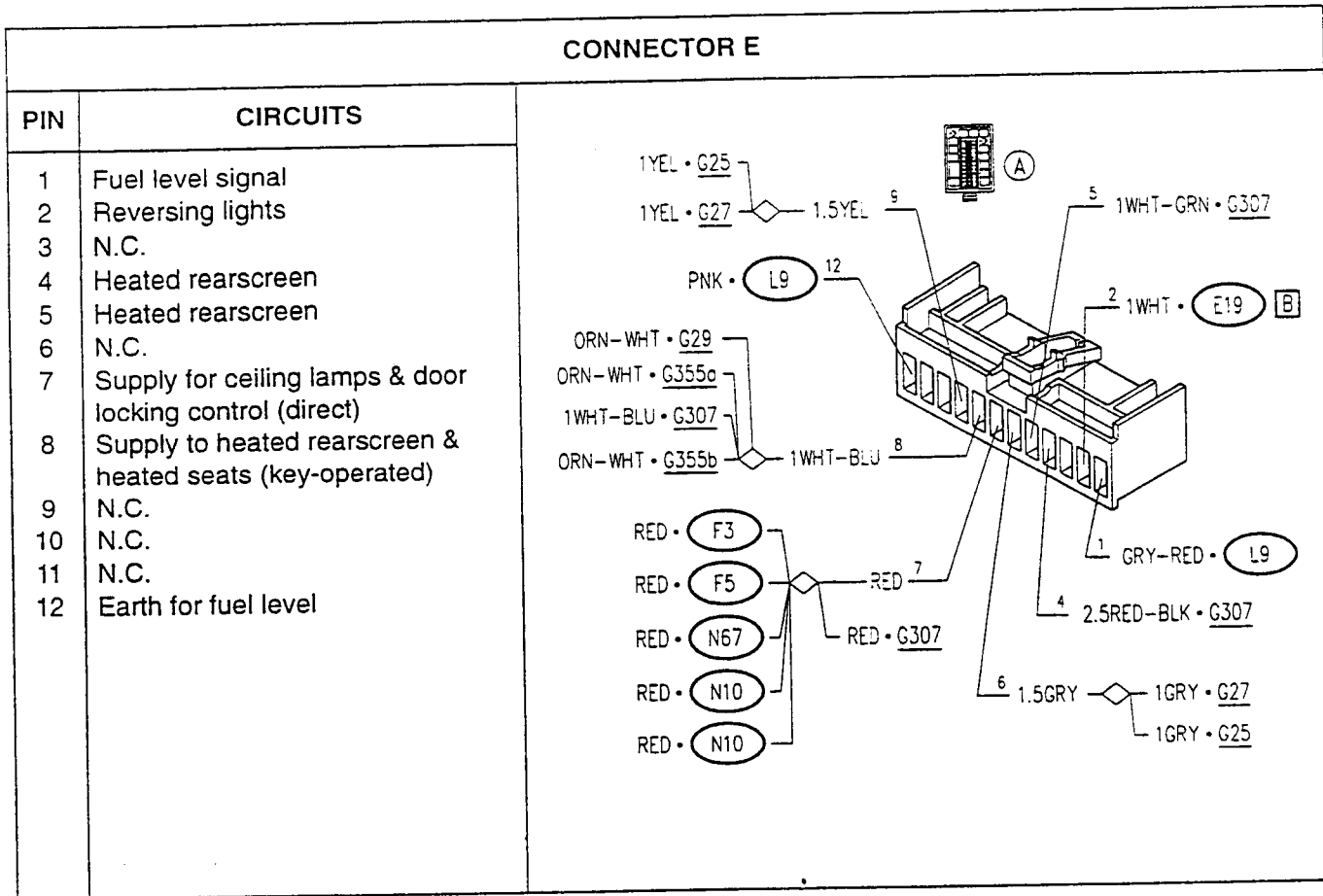


CONNECTOR D

PIN	CIRCUITS
1	Fog guard warning light
2	High beam warning light
3	N.C.
4	Handbrake/brake fluid warning light
5	Controlled earth
6	Fuel level gauge
7	Supply to instr.cluster, check panel, door locking (direct)
8	LH direction indicator warning light
9	RH direction indicator warning light
10	Lighting for controls, indicators etc., side lights warning light
11	Heated rearscreen warning light
12	Supply for instr.cluster, check panel, airbag, engine fan, ALFA ROMEO control unit (*) (key-operated)

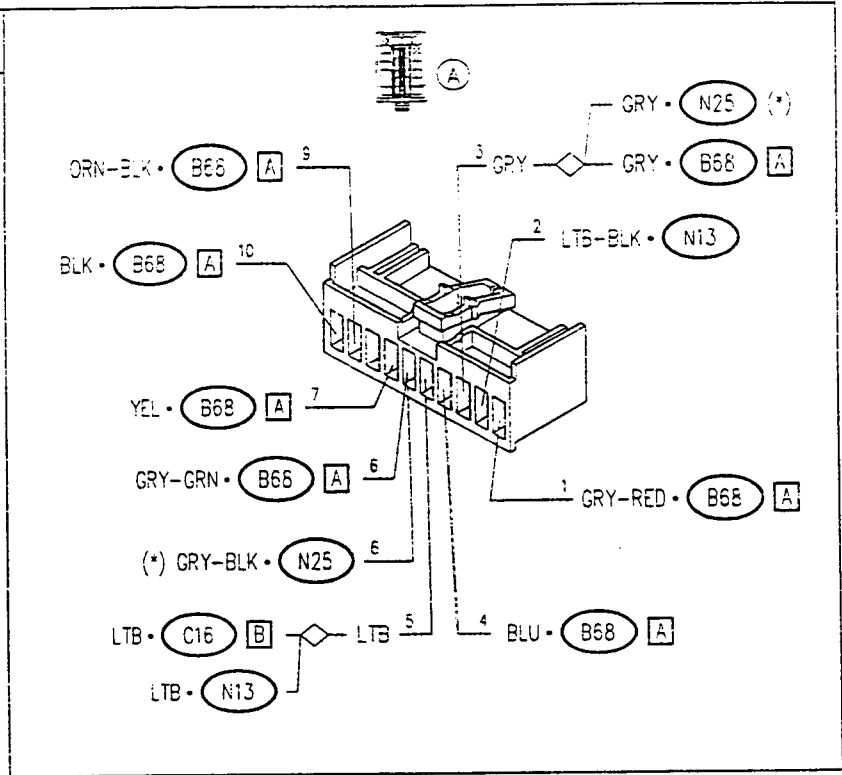


(•) only up to M.Y. '96



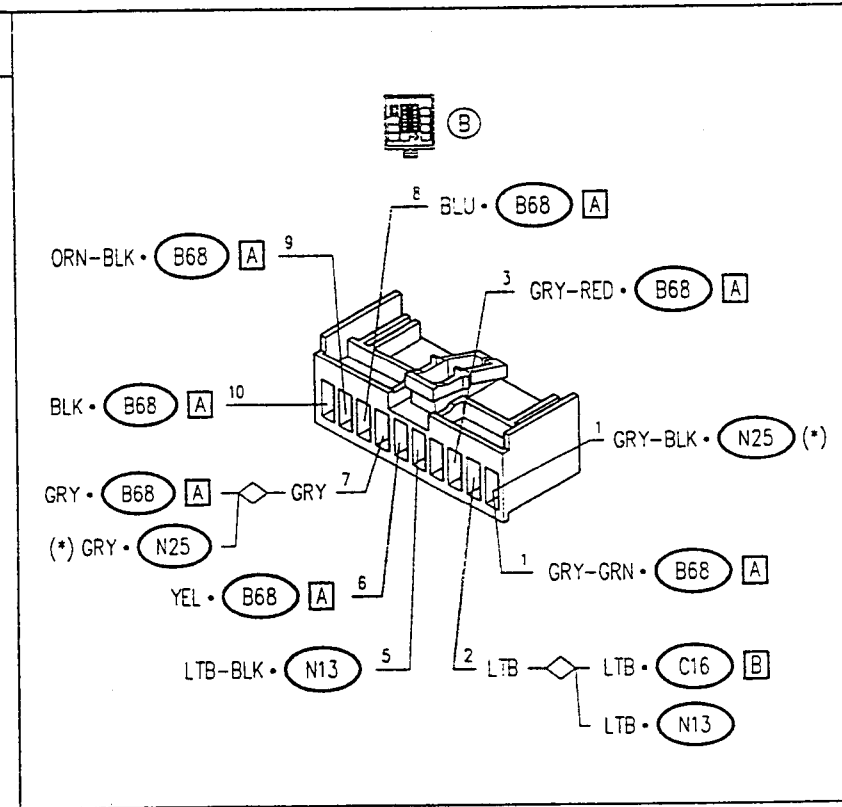
CONNECTOR F

PIN	CIRCUITS
1	Rear fog guard consent
2	LH direction indicator control
3	Low beam control
4	High beam control
5	RH direction indicator control
6	Rear fog guard control
7	Sidelights control & LH lever unit lighting
8	N.C.
9	Lever unit supply
10	LH lever unit earth

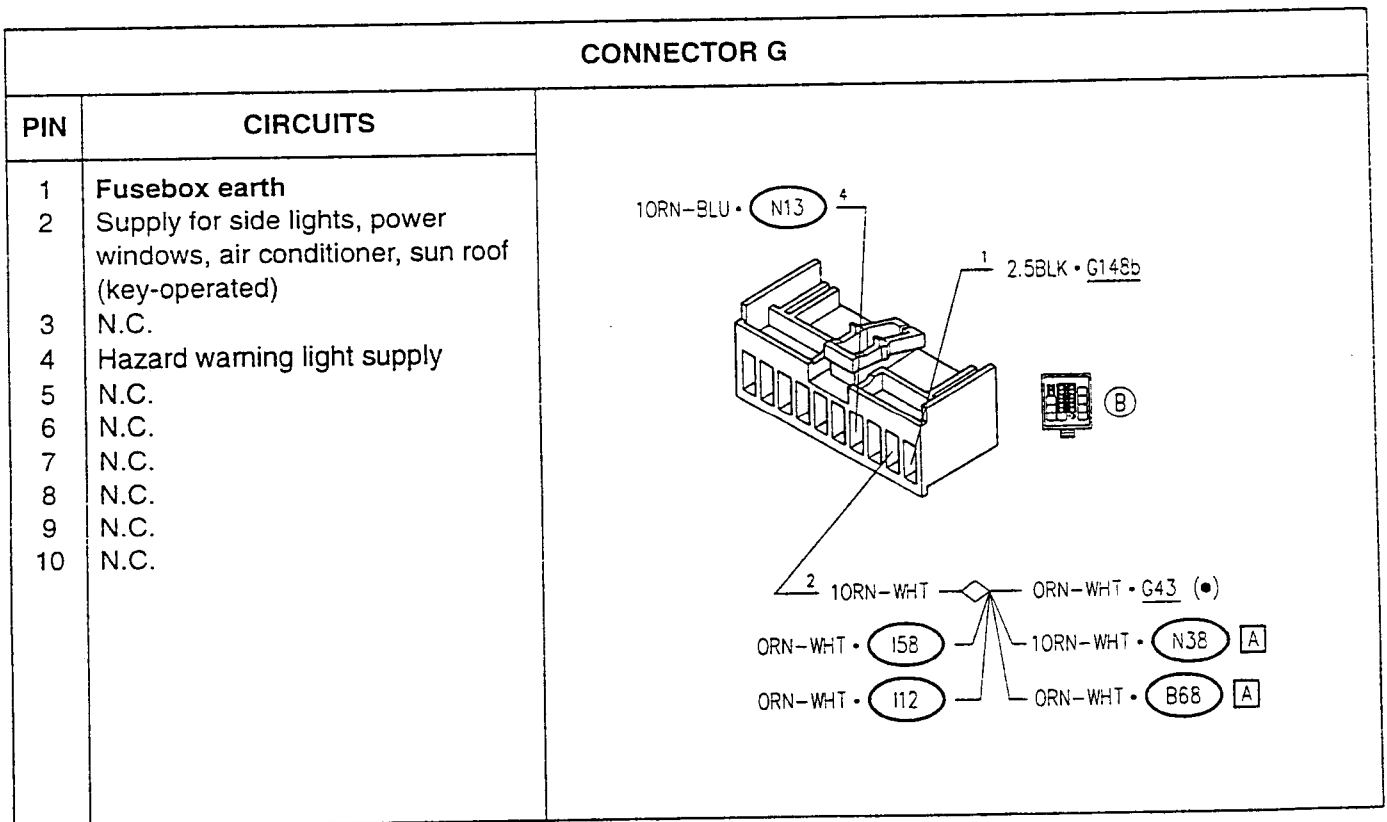
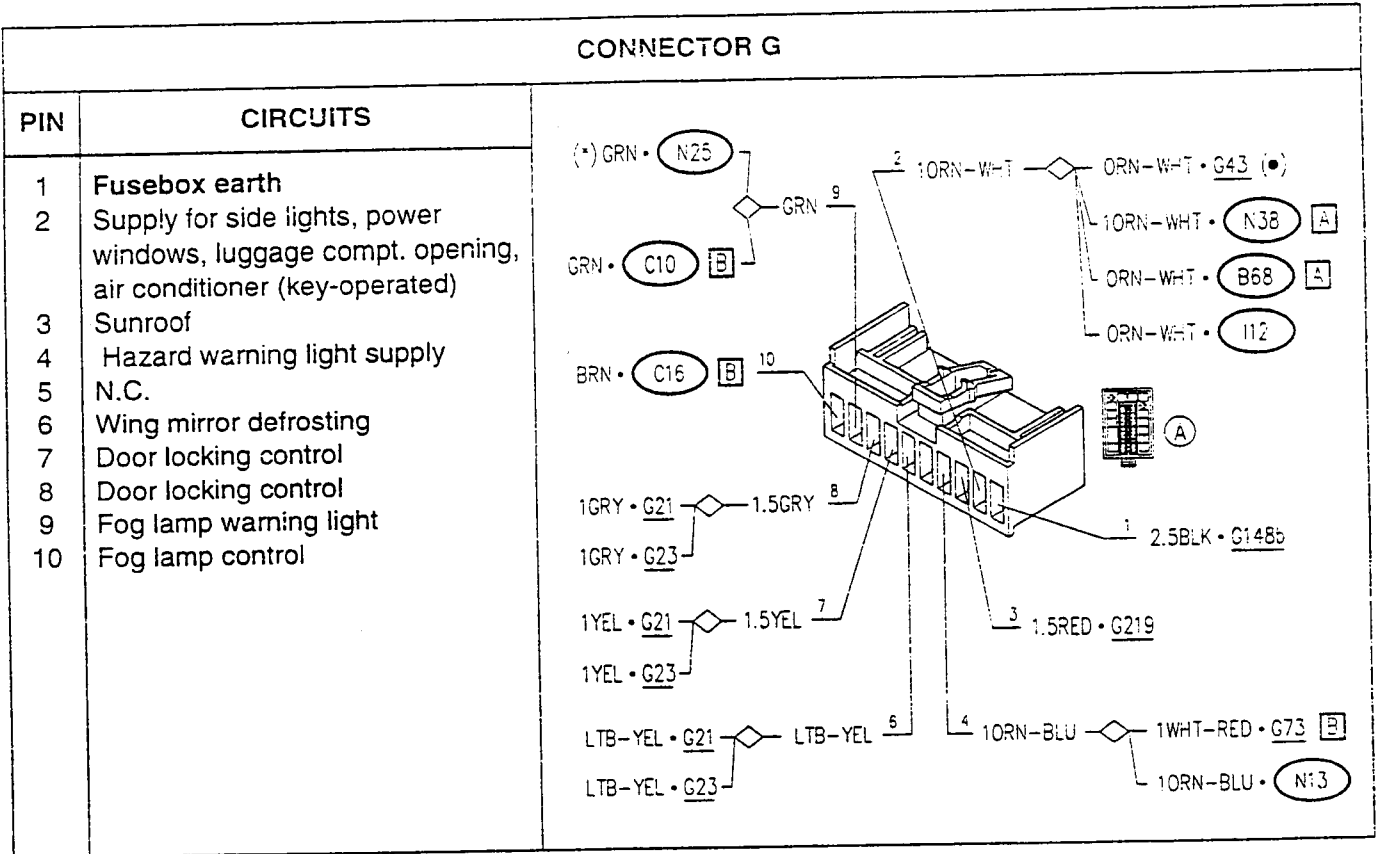


CONNECTOR F

PIN	CIRCUITS
1	Rear fog guard control
2	RH direction indicator control
3	Rear fog guard consent
4	N.C.
5	LH direction indicator control
6	Sidelights control & LH lever unit lighting
7	Low beam control
8	High beam control
9	Lever unit supply
10	LH lever unit earth



(*) from M.Y. '97

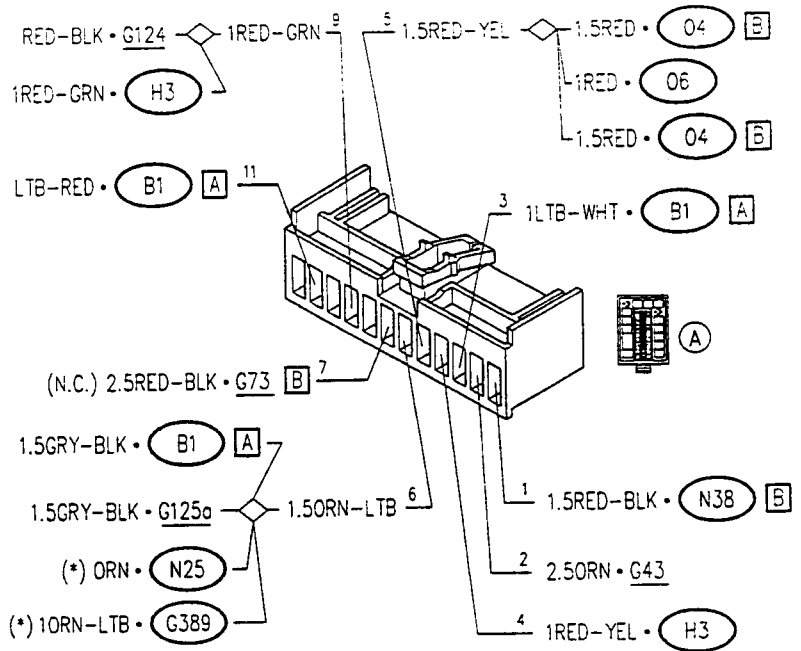


(*) from M.Y. '97

(•) only up to chassis no. 4065017

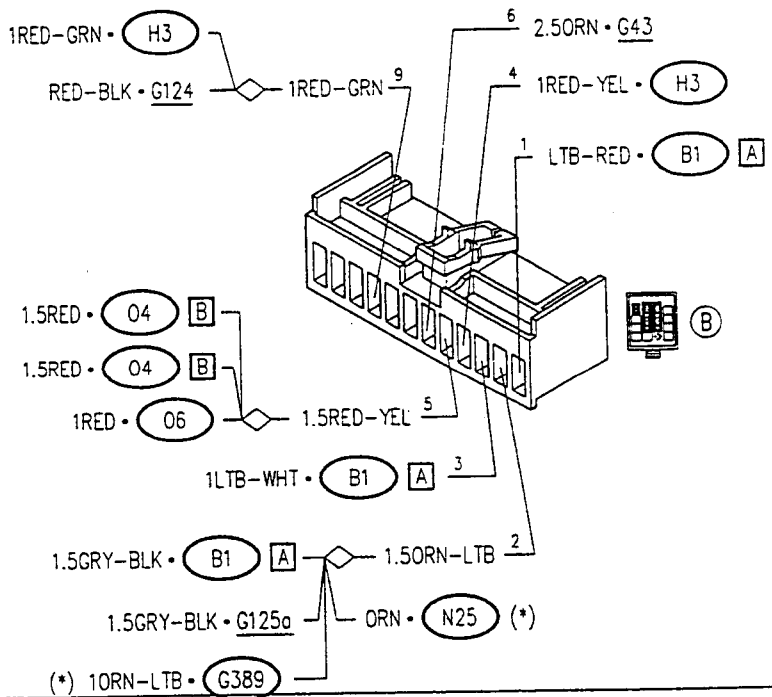
CONNECTOR H

PIN	CIRCUITS
1	Power window control unit supply (direct)
2	Heater fan supply
3	"Key-operated" supply (PARKING) Stop lights supply
4	Supply for radio, cigar lighter
5	"Key-operated" supply
6	N.C.
7	N.C.
8	Stop lights control
9	N.C.
10	"Key-operated" supply (except starting)
11	N.C.
12	

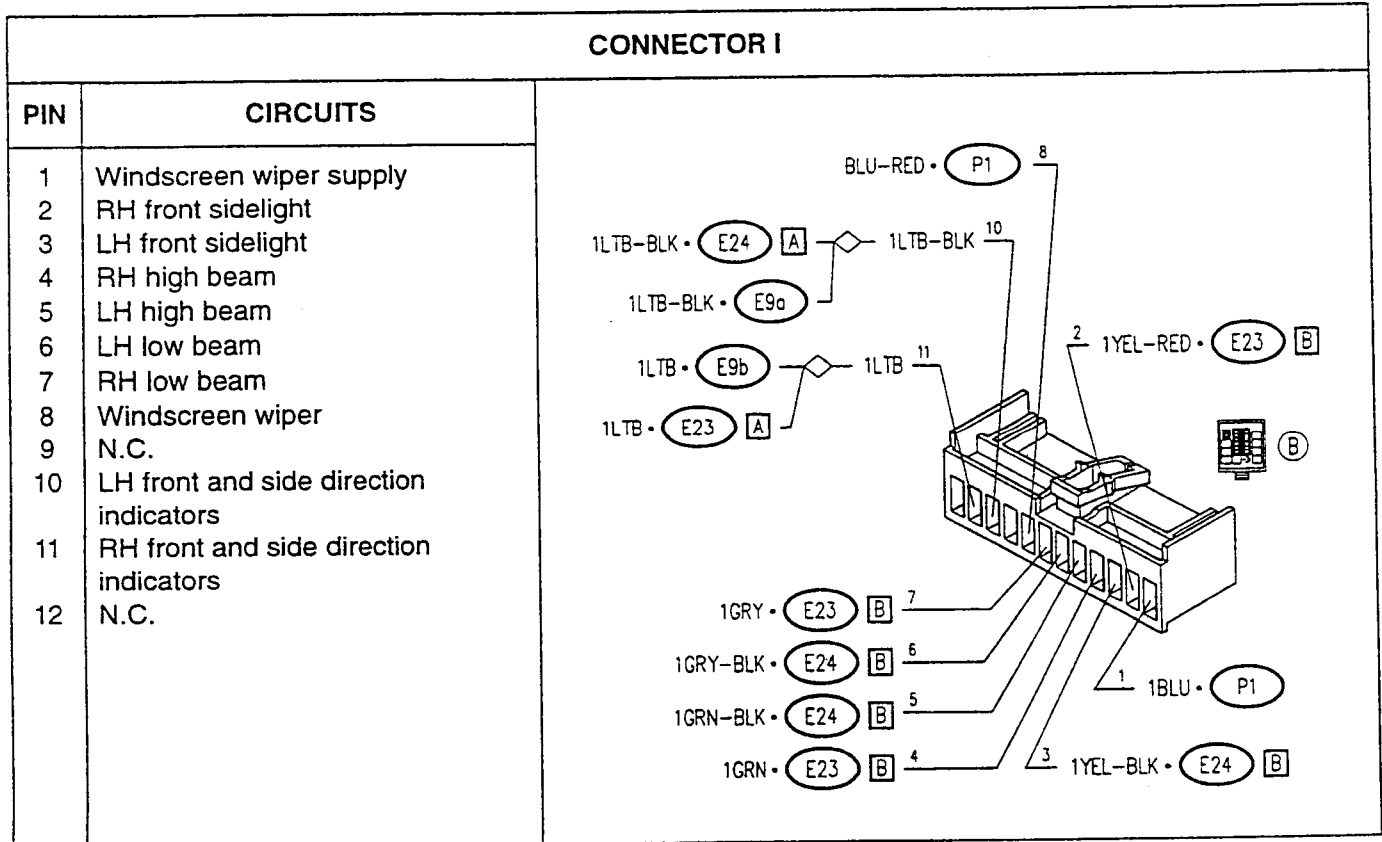
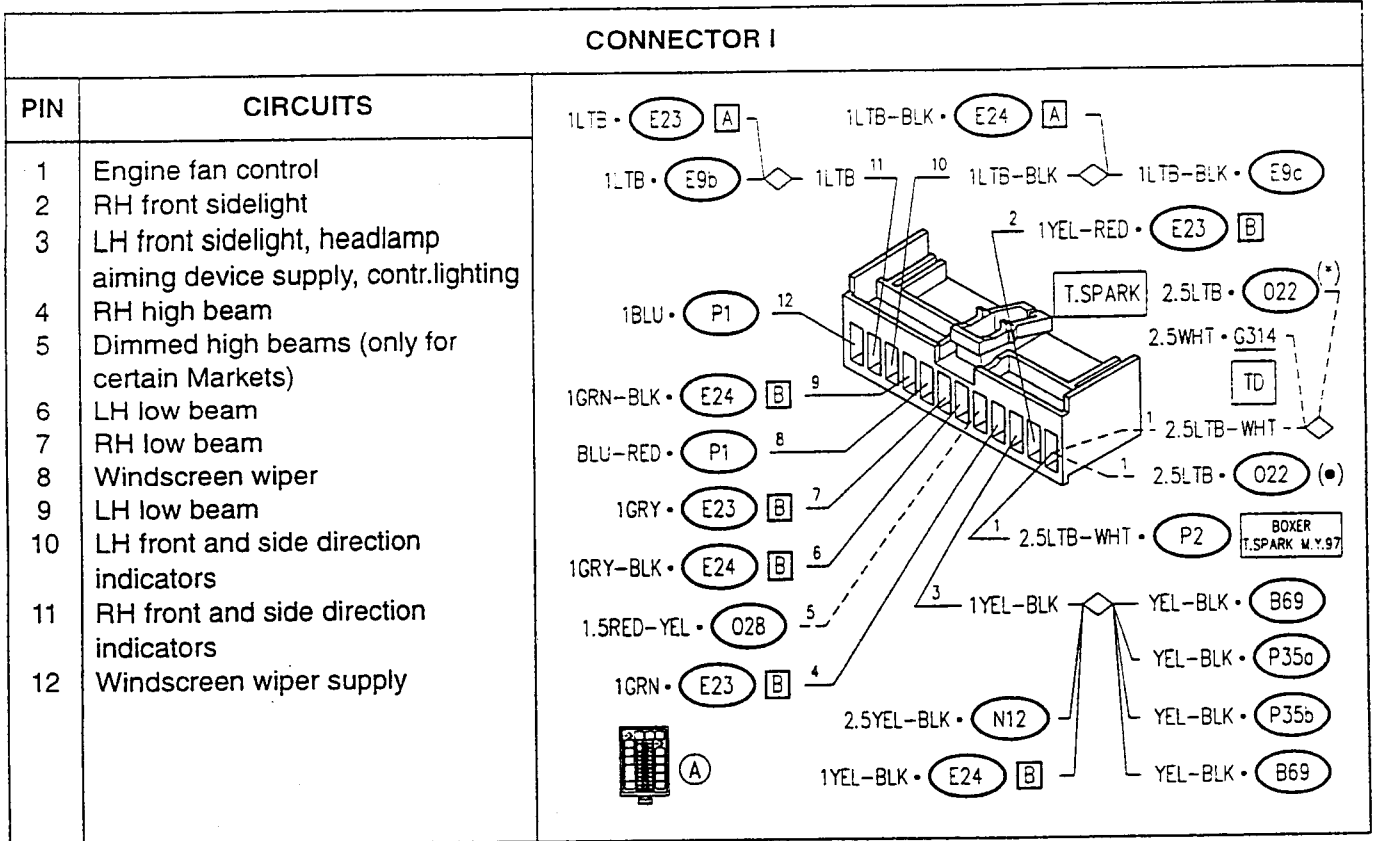


CONNECTOR H

PIN	CIRCUITS
1	"Key-operated" supply (except starting)
2	"Key-operated" supply
3	"Key-operated" supply (PARKING) Stop lights supply
4	Supply for radio, cigar lighter
5	Heater fan supply device
6	N.C.
7	N.C.
8	Stop lights control
9	N.C.
10	N.C.
11	N.C.
12	



(*) from M.Y. '97

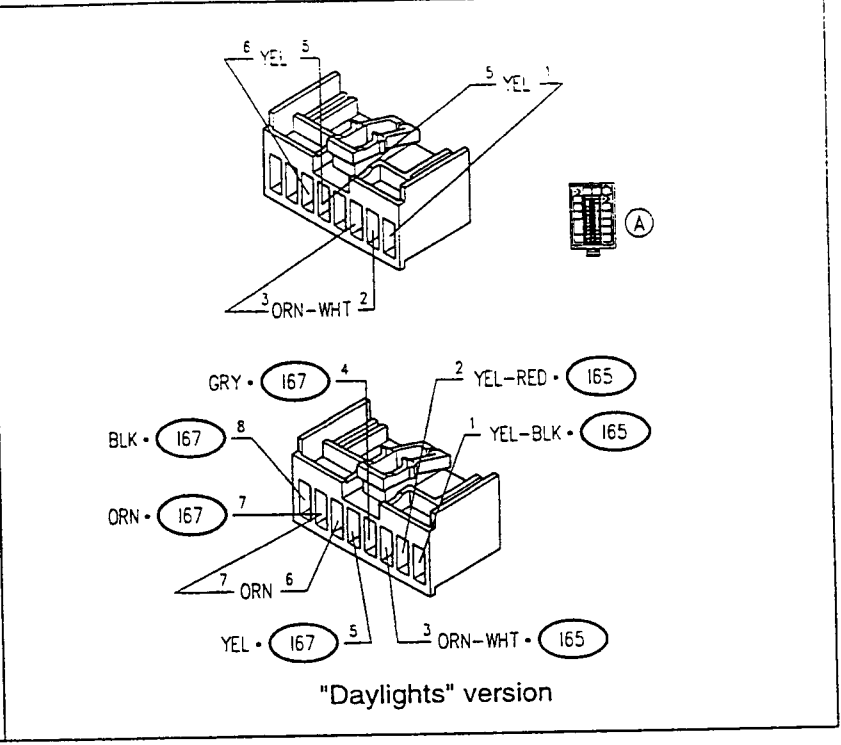


(•) TD version, from chassis no....

(*) also Boxer from chassis no.4065018

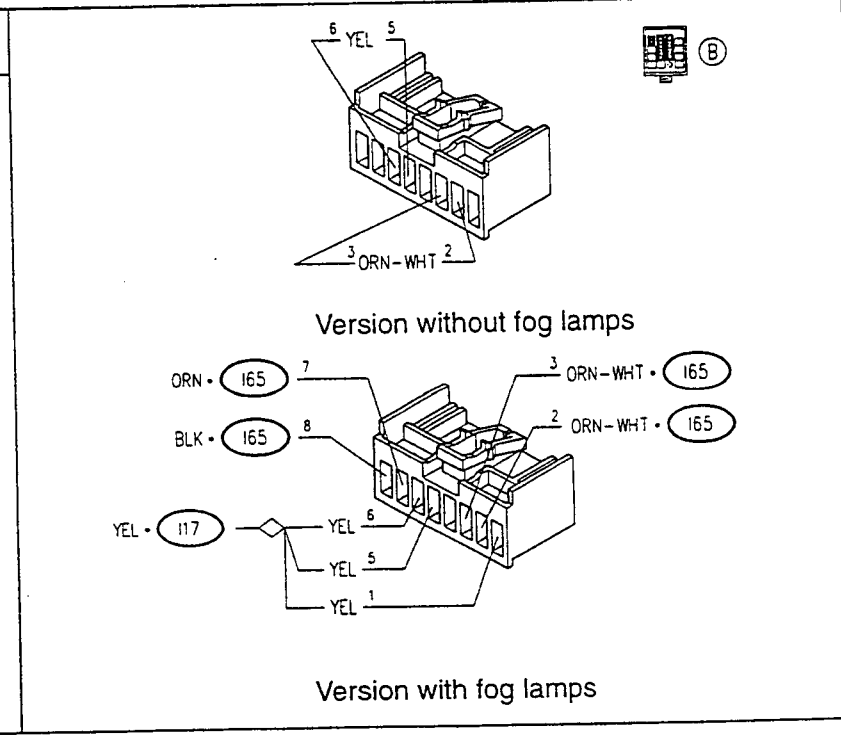
CONNECTOR J

PIN	CIRCUITS
1	Fog lamp consent
2	Rear fog guard consent
3	Low beam control
4	Low beam consent
5	Sidelights control
6	Sidelights consent
7	Key-operated supply
8	Earth



CONNECTOR J

PIN	CIRCUITS
1	N.C.
2	Rear fog guard consent
3	Low beam control
4	N.C.
5	Sidelights control
6	Sidelights consent
7	Key-operated supply
8	Earth



CONNECTOR K		
PIN	CIRCUITS	Connector K: provision for trailer (see "Trailer provision" section)
1	LH direction indicator	
2	RH direction indicator	
3	LH sidelights	
4	Rear fog guard	
5	RH sidelights	
6	Stop lights	

NOTE: in fusebox "B" there is no provision for trailer

CONNECTOR L		
PIN	CIRCUITS	
1	Heated rear seats supply (direct)	
2	Dimmed low beam control (only for certain Markets)	
3	Door release control	
4	Door locking control	

Not contained in fusebox "B"

CONNECTOR M		
PIN	CIRCUITS	
1	N.C.	
2	Door release from remote control	
3	Door lock from remote control	
4	N.C.	

Not contained in fusebox "B"

CONNECTOR Q		
PIN	CIRCUITS	
-	Power windows and ALFA ROMEO CODE supply, door mirrors defrosting	
-	Conditioner compressor supply (TD and TD-CAT)	

FUSEBOX SUPPLY

PIN	CIRCUITS	
-	Supply for power windows ALFA ROMEO CODE control unit, wing mirror defrosting	
-	Air conditioner compressor supply (TD and TD-CAT)	

CONNECTOR A

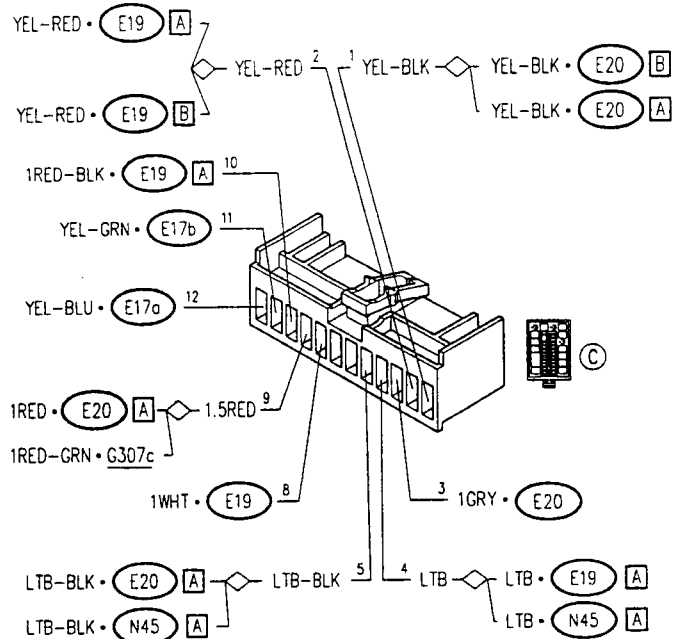
PIN	CIRCUITS	
1	Heated seats supply (direct)	
2	Door release control	
3	Door locking control	
4	Cigar lighter supply	
5	Supply for direction indicators/power windows/boot opening/conditioner (key-operated)	
6	Radio supply (direct)	
7	Radio supply and radio telephone (direct)	
8	Wing mirror defrosting	
9	Door locking device control	
10	Door locking device control	
11	Door locking device control	
12	Door locking device control	

CONNECTOR B

PIN	CIRCUITS	
1	Horns control	
2	Rearscreen washer control	
3	N.C.	
4	RH lever unit earth	
5	Windscreen washer control	
6	Wiper intermittence control	
7	Rearscreen wiper control	
8	Windscreen washer supply	
9	Rearscreen heating control	
10	RH lever unit lighting	

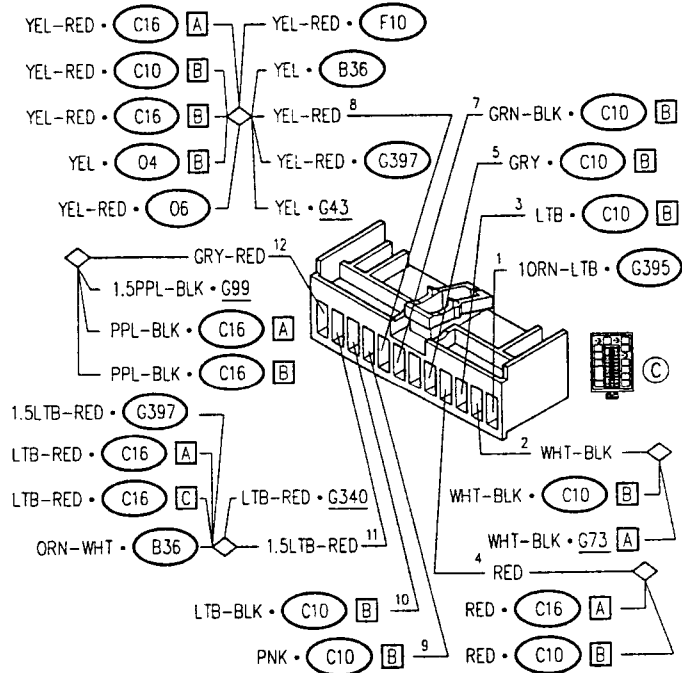
CONNECTOR C

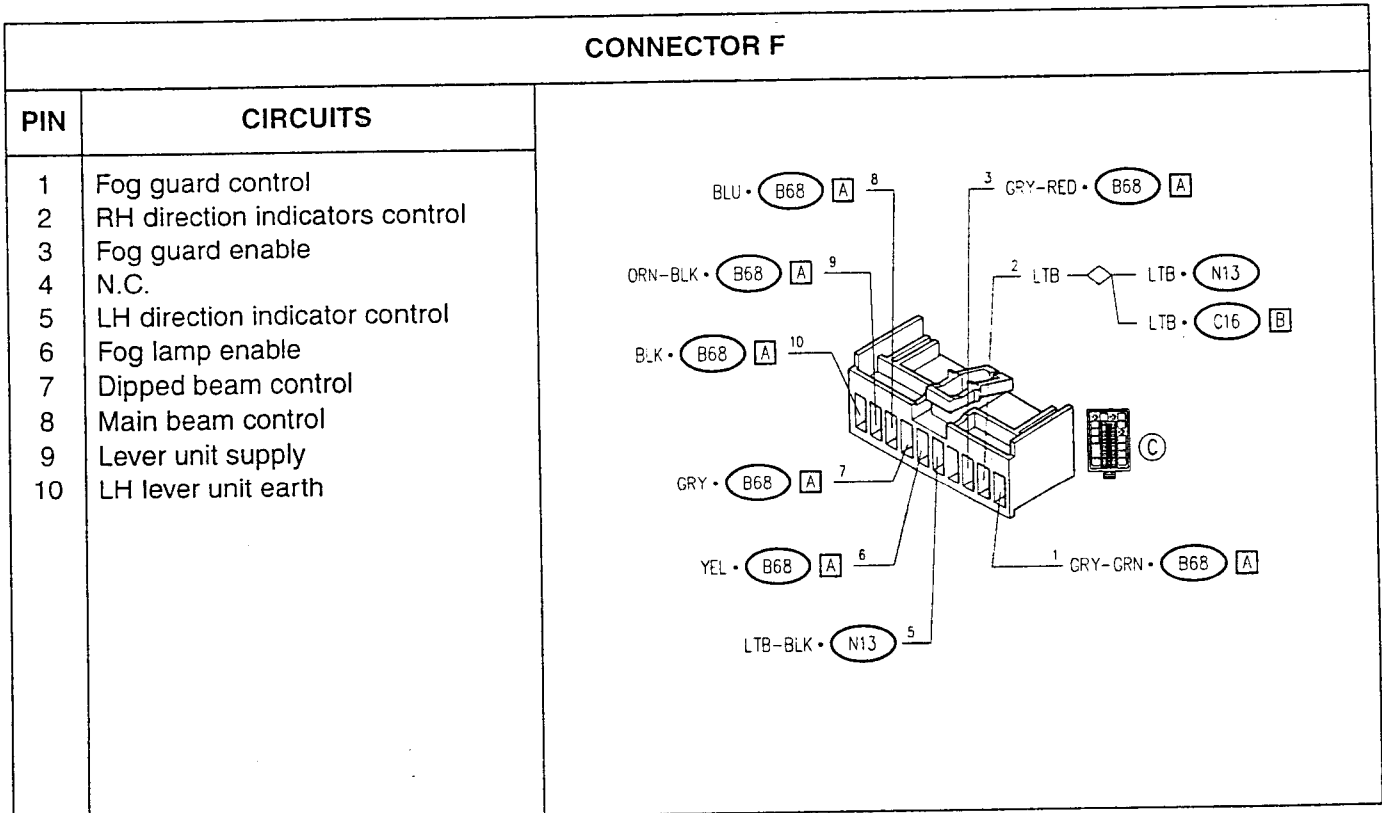
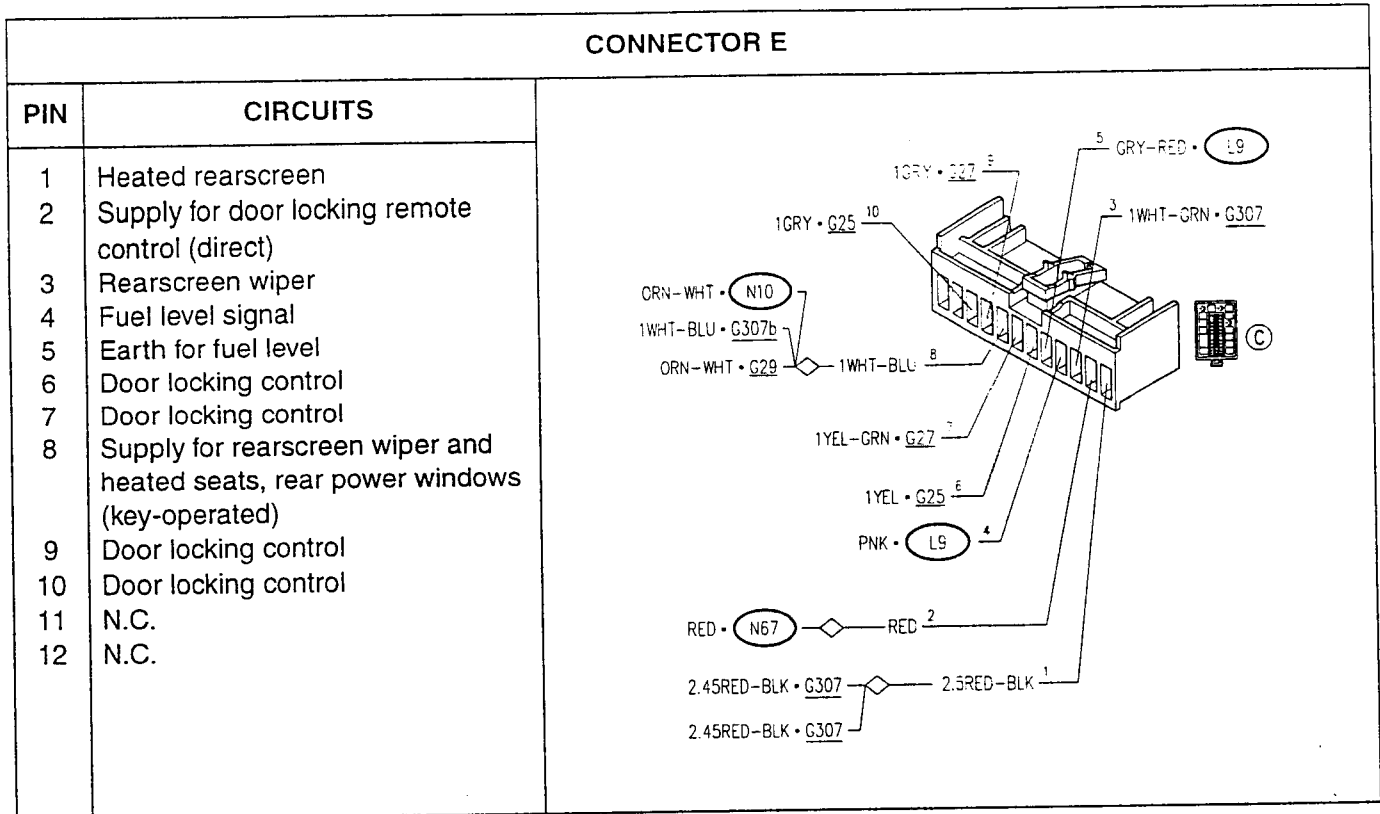
PIN	CIRCUITS
1	LH rear sidelights
2	RH rear sidelights
3	Rear fog guard
4	RH rear direction indicators
5	LH rear direction indicators
6	N.C.
7	N.C.
8	Reversing lights
9	LH stop light
10	RH stop light
11	RH number plate light
12	LH number plate light

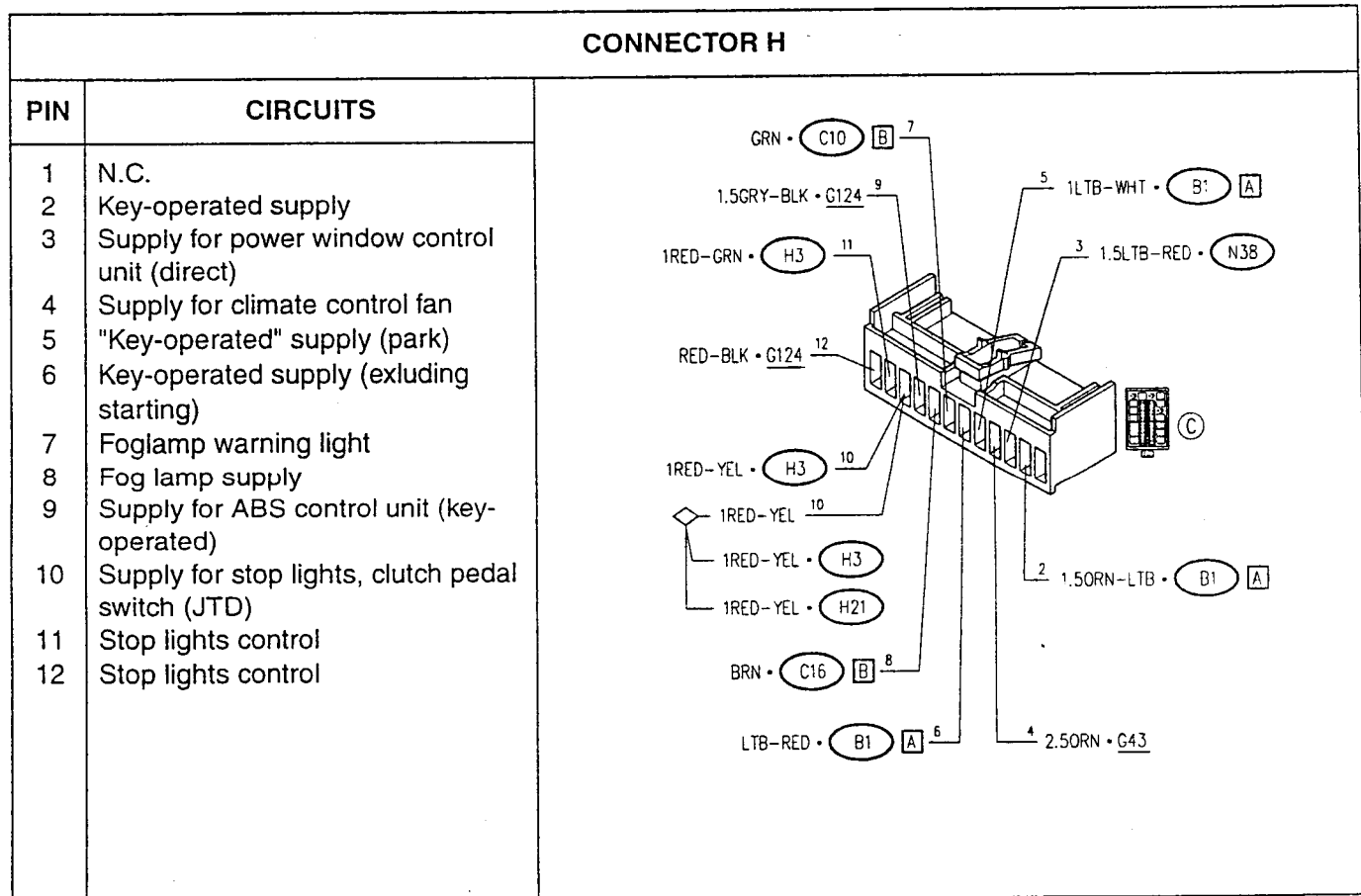
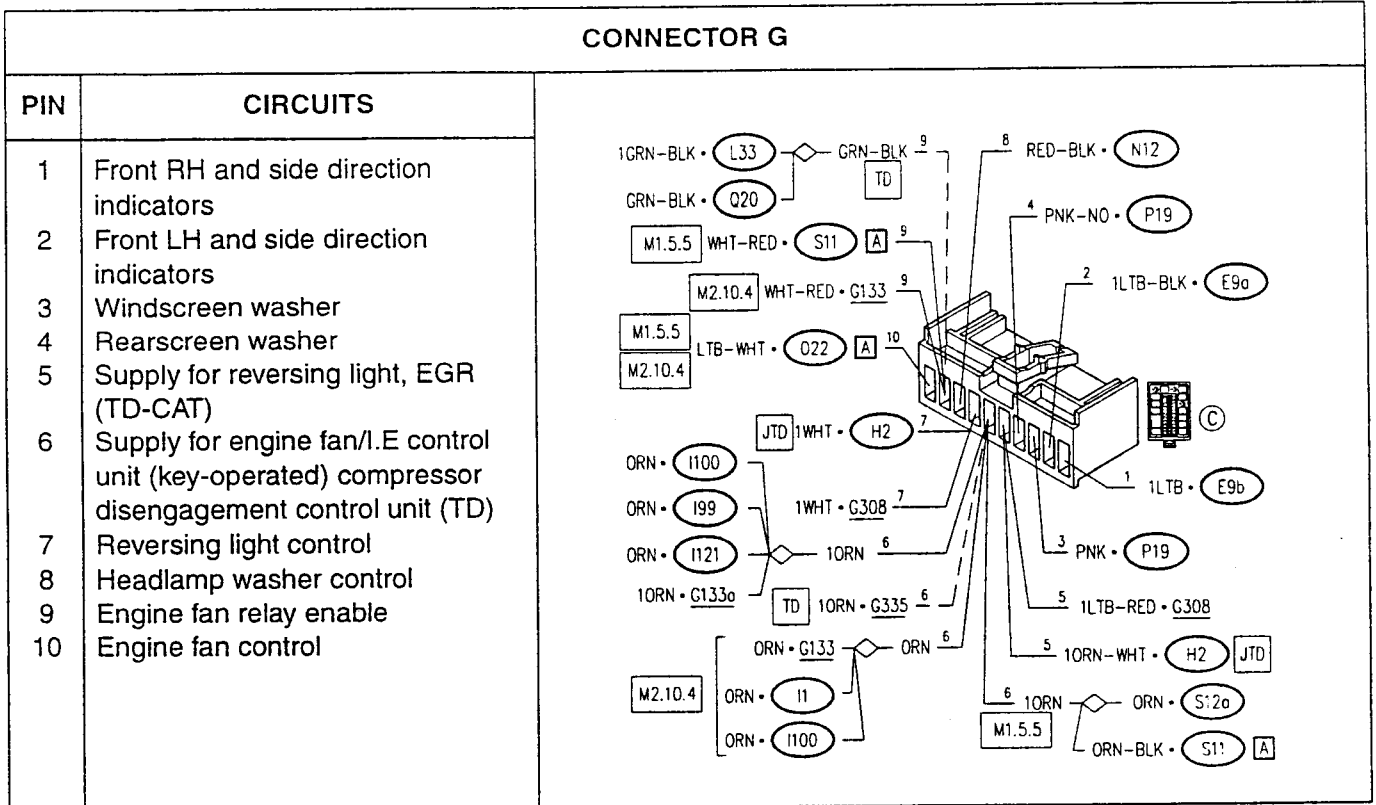


CONNECTOR D

PIN	CIRCUITS
1	Air Bag supply
2	Handbrake/brake fluid warning light
3	RH direction indicator warning light
4	Supply for cluster, check (direct)
5	Fog guard warning light
6	N.C.
7	Main beam warning light
8	Controls lighting, indicators etc. sidelights warning light
9	Fuel level gauge
10	LH sidelights warning light
11	Supply for check, wing mirror adj., radio telephone
12	Earth

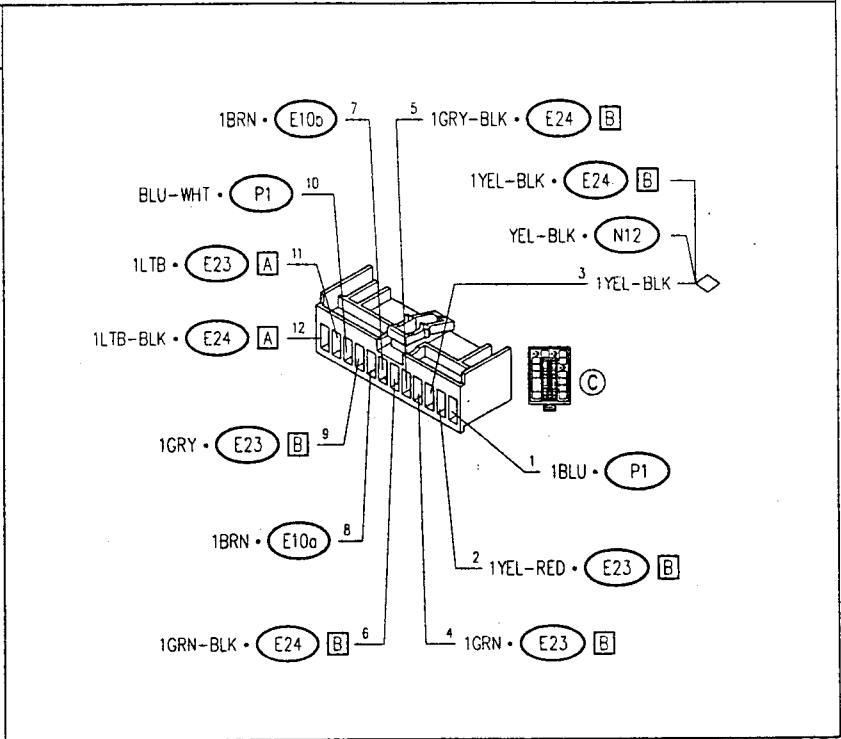






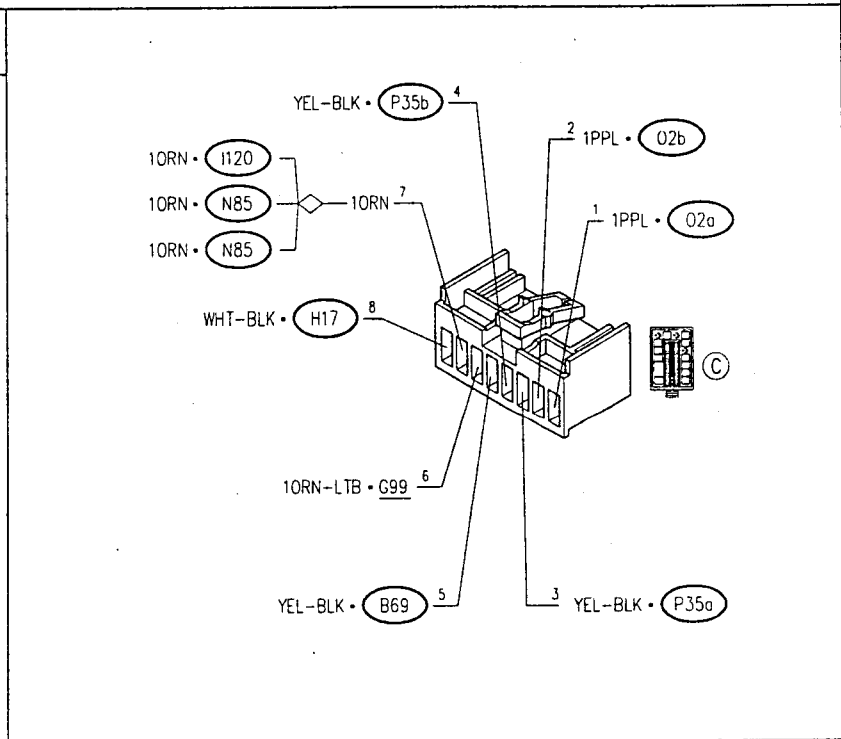
CONNECTOR I

PIN	CIRCUITS
1	Supply for windscreen wiper
2	RH front sidelight
3	LH front sidelight, headlamp washer timer
4	RH main beam
5	LH dipped beam
6	LH main beam
7	RH fog lamp
8	LH fog lamp
9	RH dipped beam
10	Windscreen wiper supply
11	RH front and side direction indicators
12	LH front and side direction indicators



CONNECTOR J

PIN	CIRCUITS
1	Low tone horn
2	High tone horn
3	LH headlamp aiming motor
4	RH headlamp aiming motor
5	Headlamp aiming control
6	CODE control unit supply
7	Additional heating control unit (JTD)
8	Brake fluid level switch











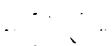
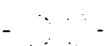
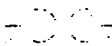
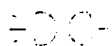
































CONNECTOR L		
PIN	CIRCUITS	
1	N.C.	
2	N.C.	
3	Supply for hazard warning lights	
4	Sunroof supply	

CONNECTOR M		
PIN	CIRCUITS	
1	Supply for hazard warning lights/alarm	
2	Supply for alarm control unit and remote control receiver	
3	N.C.	
4	N.C.	


































CONNECTOR N (EARTH)		
PIN	CIRCUITS	
-	Fusebox earth	

A list is also given of the fuses contained in the fusebox G1, with the corresponding symbol, amp rating and indications regarding the type of supply and circuits protected

Box "A"

FUSE			SUPPLY	SERVICES PROTECTED
SYMBOL	N°	AMP.		
	1	10A		Hazard warning lights, Anti-theft device
	2	25A		Horns, cigar lighter, stop lights, radio
	3	20A	 (135)	Windscreen wiper
	4	25A	 (135)	Rear. wiper, compressor control (TD), radiator fan (TD - T.SPARK) heated seats, rear power windows
	5	10A	 (164)	Instr. cluster lighting, contr.lighting, LH rear side lights, RH no.plate, RH front sidelight, sidelights warning light,
	6	10A	 (164)	RH rear sidelight, LH no. plate, LH front sidelight, headlamp aiming device
	7	10A	 (149)	Right low beam headlamp
	8	10A	 (149)	Left low beam headlamp
	9	15A	 (150)	Right high beam headlamp
	10	15A	 (150)	Left high beam headlamp, high beam warning light
	11	7.5A	 (125)	Rear fog guard, fog guard warning light
	12	30A		Heated rearscreen, heated rearscreen warning light, mirror defrosting
	13	20A	 (135)	Heater, fan
	14	30A		Engine fan (Boxer)
SERVICES	15	15A		Instr. cluster, windscr.-hd.lamp washer pump, reversing lights, airbag, wing mirror adjustment, clock, check panel, ALFA ROMEO CODE, E.G.R.
	16	10A		Clock, interior lighting, instrument cluster, door lock remote control
	17	7.5A		Direction indicators, front power windows, compressor control, engine fan timer, luggage compartment opening control
	18	20A		Door lock
	19	20A		Fog lamps, fog lamp warning light
	20	30A	 (158)	Electric sunroof
	21	30A		Heated seats
	22	25A		Left front power window
SERVICES	24	7.5A		Dim-Dip

Box "B"

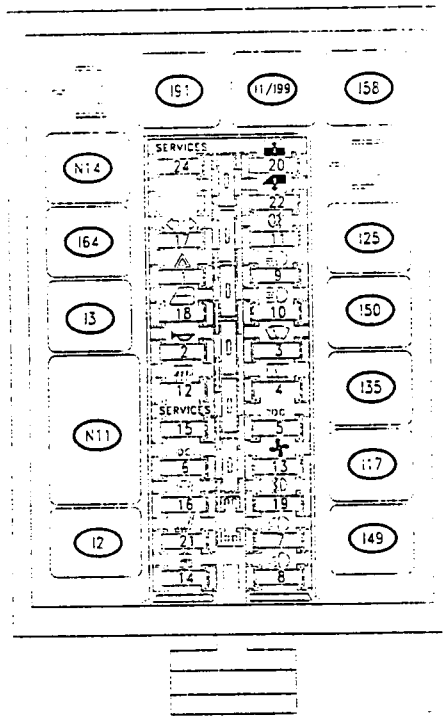
FUSE			SUPPLY	SERVICES PROTECTED
SYMBOL	N°	AMP.		
	1	10A		Hazard warning lights
	2	20A		Horns, cigar lighter, stop lights, radio
	3	20A	 (135)	Windscreen wiper
	4	20A	 (135)	Heated rearscreen
	5	10A	 (164)	Instr. cluster lightiing, contr, lighting, rear LH sidelights, RH no.plate, front RH sidelight, sidelight warning light, power windows sidelight
	6	10A	 (164)	Rear RH sidelight, LH no.plate, front LH sidelight
	7	10A	 (149)	Right low beam headlamp
	8	10A	 (149)	Left low beam headlamp
	9	10A	 (150)	Right high beam headlamp
	10	10A	 (150)	Left high beam headlamp, high beam warning light
	11	7.5A		Rear fog guard, fog guard warning light
	12	30A		Heated rearscreen, heated rearscreen warning light
	13	20A	 (135)	Heater, fan
	14	25A		Engine fan
SERVICES	15	10A		Instr. cluster, windscr.-hd.lamp washer, rev. lights, airbag, clock, engine fan, ALFA ROMEO CODE
	16	20A		Clock, interior lighting, instrument cluster, door locks
	17	7.5A		Direction indicators, compressor control, engine fan timer, sunroof control

Box "C"

FUSE			SUPPLY	SERVICES PROTECTED
SYMBOL	N°	AMP.		
	1	10A		Hazard warning lights
	2	20A	(13)	Horns
	3	20A	(135)	Windscreen wiper, heated seats, rear power windows, roof lights
SERVICES	4	10A	(135)	Cigar lighter
	5	10A	(164)	LH rear sidelight, RH number plate light, RH front sidelight
	6	10A	(164)	RH rear sidelight, LH number plate light, LH front sidelight, sidelight warning light, cluster lighting, controls lighting
	7	10A	(149)	Right low beam headlamp, headlamp aiming device
	8	10A	(149)	Left low beam headlamp
	9	15A	(150)	Right high beam headlamp
	10	15A	(150)	Left high beam headlamp, high beam warning light
	11	7.5A	(N25)	Rear fog guard, rear fog guard warning light
	12	30A		Rearscreen heating, rearscreen heating warning light, wing mirror defroster
	13	30A	(135)	Heater, fan
	14	7.5A		Engine fan, CODE control unit, i.e. control unit, i.e. control unit (JTD), compressor control unit (TD)
SERVICES	15	15A		Lever unit supply, cluster, check panel, boot opening, front power window, wing mirror adjustment, Air Bag, air recirculation, compressor control, EGR (TD), ABS, radio telephone, additional heating (JTD)
	16	20A		Clock, inner roof lights, instrument cluster, door locking remote control, radio telephone
	17	7.5A		Door locking and alarm relay, TELEPASS supply
	18	20A		Door locking device
	19	20A	(117)	Foglamps, foglamp warning light
	20	30A	(158)	Sunroof
	21	30A		Heated seats
	22	25A		Left front power window
	23	25A		Rear power windows
	24	10A		ABS

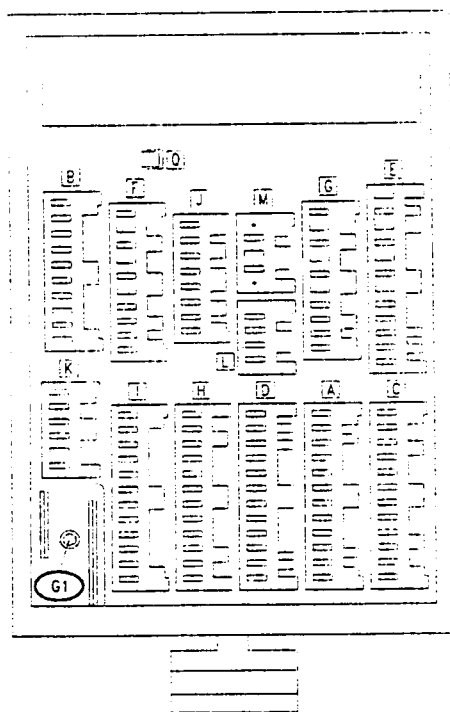
Lastly, two schematic drawings are given which show the location of the fuses and relays and the position of the connectors:

LOCATION OF FUSES AND RELAYS (Box "A")



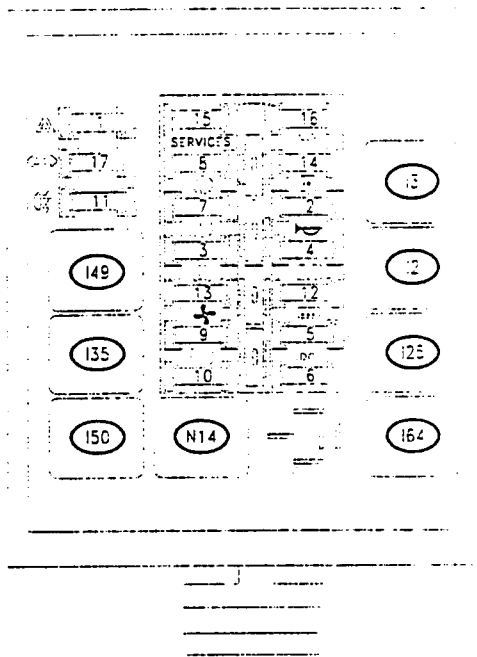
- I1 Engine water cooling fan relay
- (I99) Heated rearscreen relay (*)
- I2 Horn relay
- I17 Fog lamp relay
- I25 Rear fog guard relay
- I35 Key-operated supply relay
- I49 Low beam headlamp relay
- I50 High beam headlamp relay
- I58 Sunroof relay
- I64 Sidelights relay
- I91 DIM-DIP cut-in relay
- N11 Door locking control unit
- N14 Electronic windscreen wiper intermittence

REAR VIEW, CONNECTORS SIDE (Box "A")



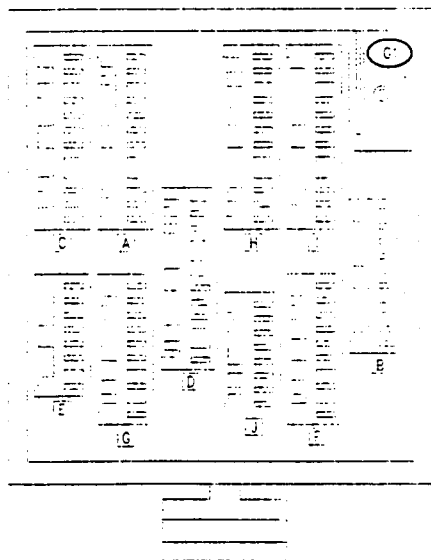
(*) timed from M.Y. '97

LOCATION OF FUSES AND RELAYS (Box "B")



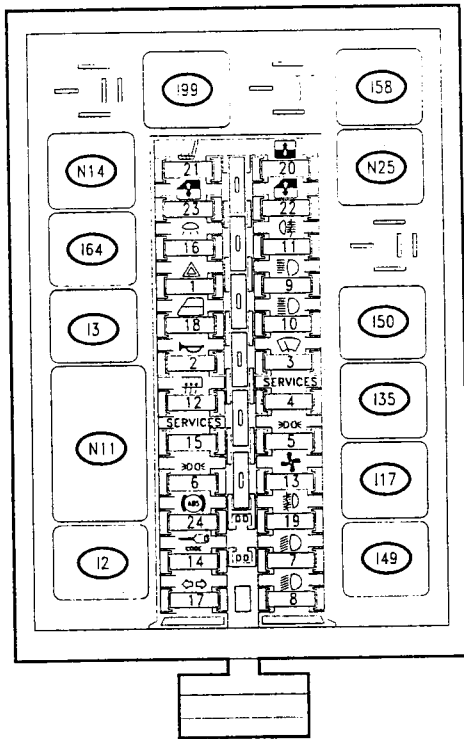
- I2 Heated rearscreen relay (*)
- I3 Horn relay
- I25 Rear fog guard relay
- I35 Key-operated supply relay
- I49 Low beam headlamp relay
- I50 High beam headlamp relay
- I64 Sidelights relay
- N14 Electronic windscreen wiper intermittence

REAR VIEW, CONNECTORS SIDE (Box "B")



(*) timed from M.Y. '97

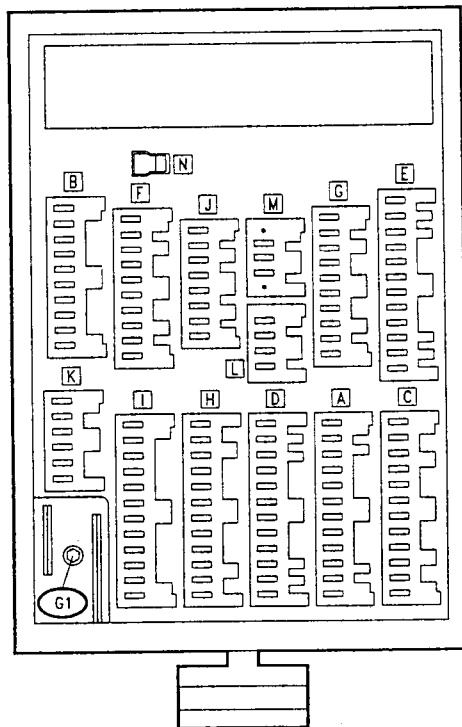
LOCATION OF FUSES AND RELAYS (Box "C")



RELAYS:

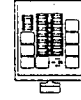
- I2 Rearscreen heating relay
- I3 Horn relay
- I17 Fog lamp relay
- I35 Key-operated supply relay
- I49 Low beam headlamp relay
- I50 High beam headlamp relay
- I58 Sunroof relay
- I64 Sidelight relay
- I99 Engine water cooling fan relay
- N11 Door locking control unit
- N14 Windscreen wiper intermittent device
- N25 Rear fog guard control unit

REAR VIEW, CONNECTORS SIDE (Box "C")



FUSES AND RELAYS ON AUXILIARY BRACKET

A



B

A set of fuses and relays is to be found on an auxiliary bracket (not removable) located on the left of the main fusebox; next to this there is the power window control unit **N38** and, for versions with fusebox "B", also the door locking control unit **N11**.

The fuses and relays can be identified according to the colour of the base (fuse holder or relay holder) that connects them to the wiring, as shown in the table below:

COMPONENT	CODE	BASE COLOUR
Front power windows relay	I12	Black (Yellow*)
Luggage compartment opening relay	I52	Yellow
Hazard warning light and direction indicator flasher	N13	Grey
Timer for headlamp washer	N12	Black
Fuel warming device relay (TD only)	I44	White
Starting consent relay (•)	I10	Yellow
Diesel engine control devices relay (TD only)	I105	Grey
Engine cooling fan relay (*)	I1/199	Yellow
Engine 2nd speed cooling fan relay (••)	I100	Yellow
Sunroof relay (*)	I58	White
Heater fan relay (*)	I78	Yellow
Fog lamp relay (*)	I17	Grey
Door mirrors defrosting relay	I45	White
Headlamp washer fuse (20A)	G312	Yellow
ABS fuse (10A)	G125a	Red
Fuse for power windows (30-25A)	G310	Green
Fuse for RH power window (25A) (*)	G310	White
Fuse for LH power window (25A) (*)	G311	White
Sunroof fuse (20A) (*)	G261	Yellow
Heater fan fuse (30A) (*)	G255	Green
Fog lamp fuse (20A) (*)	G382	Yellow
Door mirrors defrosting fuse (7.5A)	G394	Brown
Fog lamp consent relay (*) (**)	I65	Grey (*)/Green (**)
Daylight cut-off relay (**)	I67	Green
Electromagnetic joint control relay (••)	Q22	Grey
Auxiliary climate control relay (••)	Q32	Grey
Conditioner fan delaying device (•••)	Q42	White
Air conditioning system wander fuse (••)	Q65	Red
Rear fog guard electronic device (***)	N25	Grey
ALFA ROMEO CODE fuse (10A) (***)	G389	Grey

(*) Only for versions with fusebox "B"

(**) Only for certain Markets

(***) From M. Y. '97

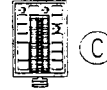
(•) For versions without ALFA ROMEO CODE, but with anti-theft system

(••) For T.SPARK version (M2.10.3) and TD versions and boxer from chassis no....

(•••) Only for TD version from chassis no....

N.B.

In addition to the colour of the base, you are recommended to check the exact location of a relay or fuse by the colour of the wires converging on it (for this, refer to the corresponding wiring diagram).

FUSES AND RELAYS ON AUXILIARY BRACKET

A set of fuses and relays is located on an auxiliary bracket (not removable) to the left of the main fusebox; next to this, there is also the power window control unit **N38**.

The fuses and relays are distinguished by the colour of the base (fuse holder or relay holder) which connects them to the wiring, according to the following table.

COMPONENT	CODE	BASE COLOUR
Front power window relay	I12	Black
Boot opening relay	I52	Yellow
Hazard warning light and direction indicator flasher	N13	Grey
Timer for headlamp washer	N12	Black
Fuel warming device relay (TD and JTD only)	I44	White
Diesel engine control devices relay (TD only)	I105	Grey
Engine cooling fan relay (•)	I1	Black
Engine cooling fan 2nd speed relay (•)	I100	Black
Wing mirror defroster relay	I45	White
Electromagnetic coupling relay (•)	Q22	Grey
Headlamp washer fuse (20A)	G312	Yellow
Power window fuse (30A)	G310	Green
Wing mirror defroster fuse (7.5A)	G394	Brown
Air conditioning system fuse	Q65	Red
Alarm fuse (20A)	G258	Yellow
Air bag and cluster fuse (10A)	G395	Red
Fuel oil warming fuse (25A) (JTD only)	G352	White
ALFA ROMEO CODE fuse (7.5A) (M1.5.5 only)	G389	Brown

(•) up to M.Y. '97

N.B.

In addition to the colour of the base, it is always wise to check the exact location of a relay or fuse by the colour of the wires that converge on it (for these refer to the corresponding wiring diagram given on the next pages).

