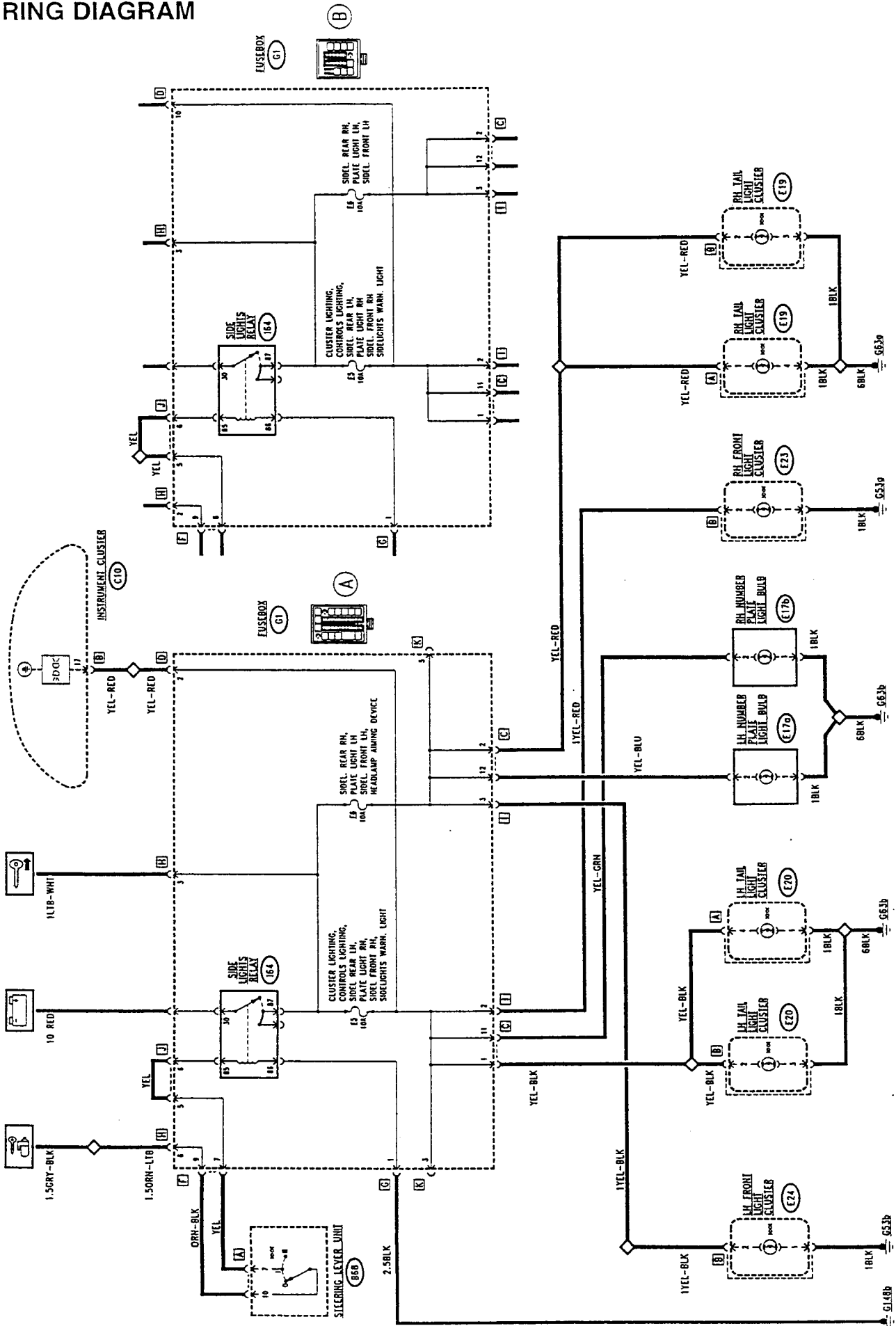


SIDE LIGHTS

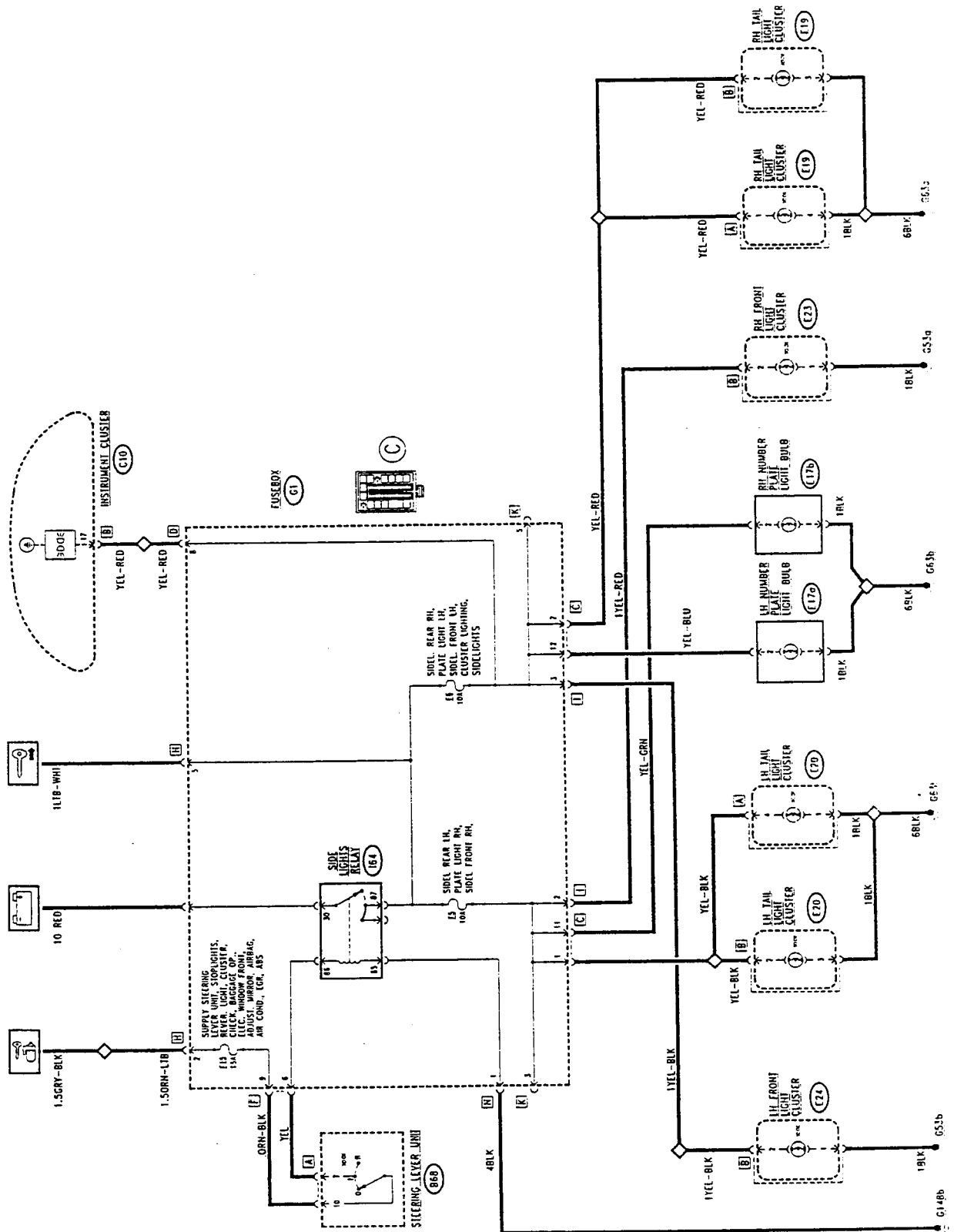
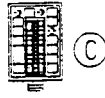
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WIRING DIAGRAM



WIRING DIAGRAM



GENERAL DESCRIPTION

The side lights are turned on when the switch on the lever unit is turned to the first position and only when the ignition key is engaged: this prevents the battery from discharging if the lights are inadvertently left on when leaving the car.

N.B.: They can also be turned on by slightly withdrawing the ignition key and turning it in the opposite direction holding down the special button: key in the "PARKING" position (see also "Power supply").


When the side lights are turned on, the number plate lights and numerous interior lights for lighting the passenger compartment, instruments and controls are also turned on (see "Controls lighting").

A warning light on the instrument panel indicates that the side lights are on.

For safety reasons the circuit is protected by two "crossed" fuses: one for the right front and left rear lights etc., the other for the left front and right rear lights, etc..

FUNCTIONAL DESCRIPTION

The side lights circuit is activated by the corresponding relay switch I64 located in fusebox G1.

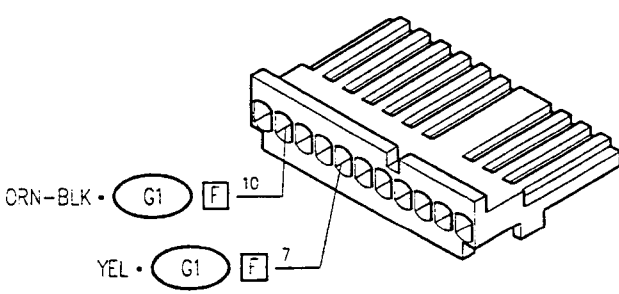
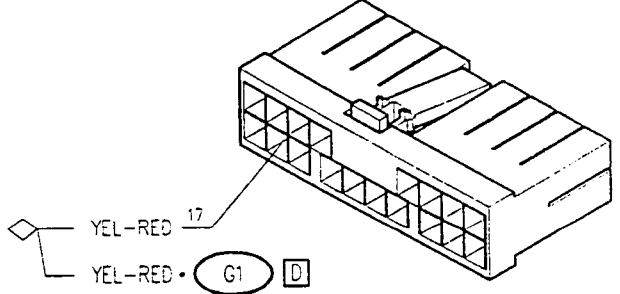
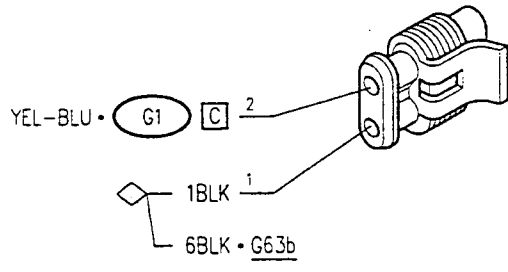
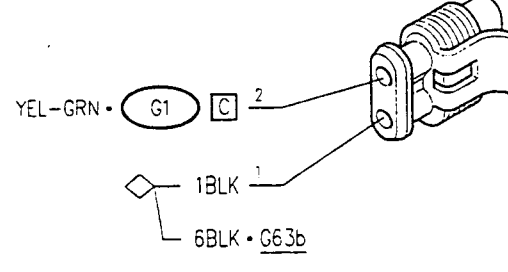
Moving the switch on the lever unit B68 to position "I" -  when the ignition key is engaged the coil of relay switch I64 is supplied thereby closing the circuit that supplies the side lights; this circuit is protected by two fuses of box G1 (box "A" and "B") and by a third fuse still in box G1 "C"; F5 for the right front and left rear lights, F6 for the front left and rear right and fuse F16 - only box "C" - for protecting the services of the steering column lever unit B68. This way the front sidelights E23 (right) and E24 (left, the rear ones E19 (right) and E20 (left) and the number plate lights E17a and E17b.

The supply line of fuse F5 - boxes "A" and "B" or of fuse F6 - box "C" - also sends a signal to the instrument cluster C10 to turn on the corresponding warning light.

When the ignition key is at the "PARKING" position all the side lights are turned on as a direct supply is sent to fuses F5 and F6 in fusebox G1, "by-passing" relay switch I64.

NOTE: Turning the side lights on also supplies numerous other circuits with "consent" signals (e.g. circuits that operate only when the side lights are on) or by supply lines in the real sense of the term (for example by illuminating the ideograms of the various buttons and controls...). The former are described and illustrated in the diagrams relating to the components to which they refer and the latter in the "Controls lighting" section.

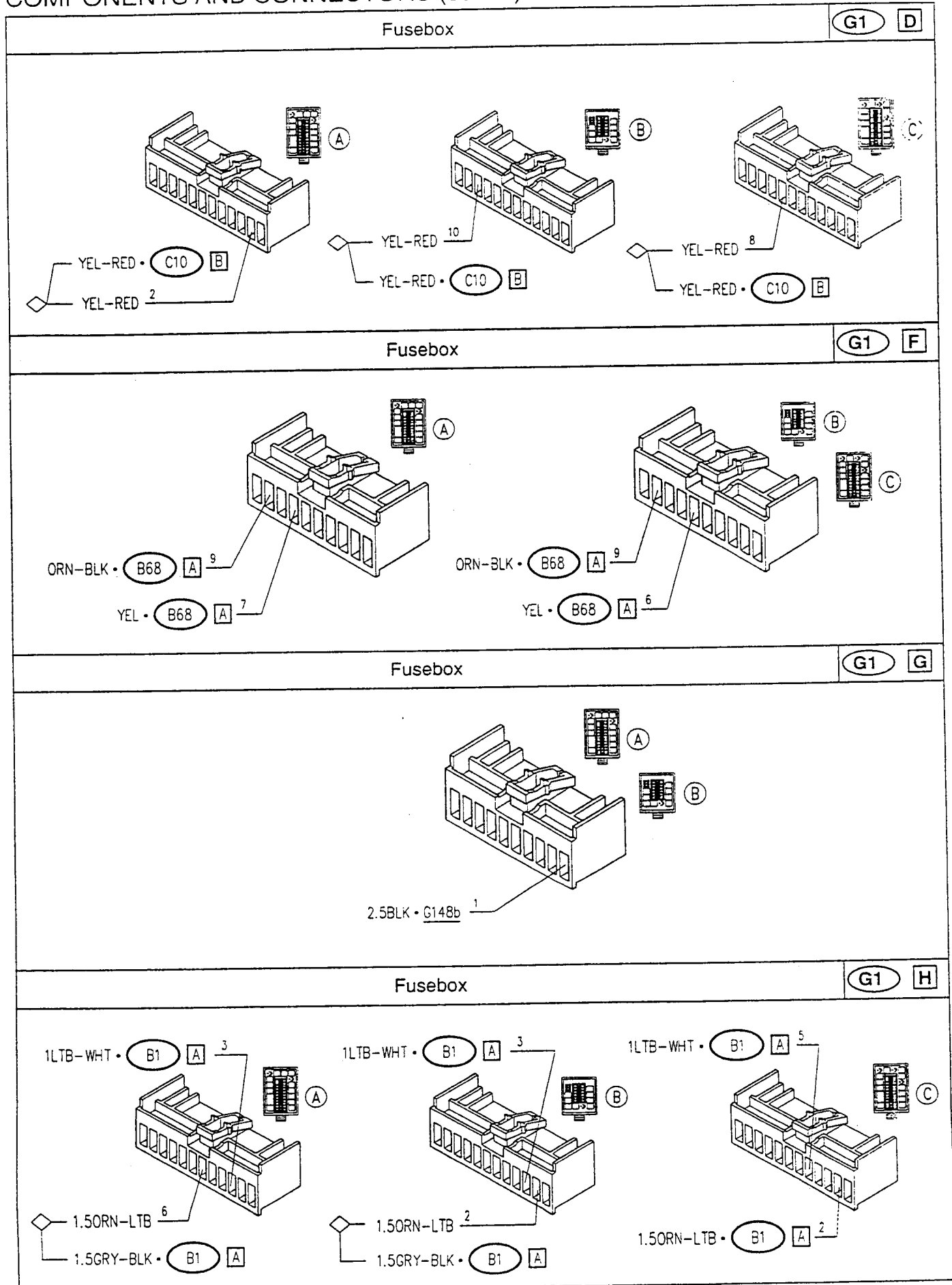
COMPONENTS AND CONNECTORS

Lever unit	B68 A	Instrument cluster	C10 B
			
LH number plate light	E17a	RH number plate light	E17b
			

COMPONENTS AND CONNECTORS (cont.d)

<p>RH tail light cluster (E19) (A)</p>	<p>RH tail light cluster (E19) (B)</p>
<p>LH tail light cluster (E20) (A)</p>	<p>LH tail light cluster (E20) (B)</p>
<p>RH front light cluster (E23) (B)</p>	<p>LH front light cluster (E24) (B)</p>
<p>Fusebox (G1)</p>	<p>Fusebox (G1) (C)</p>

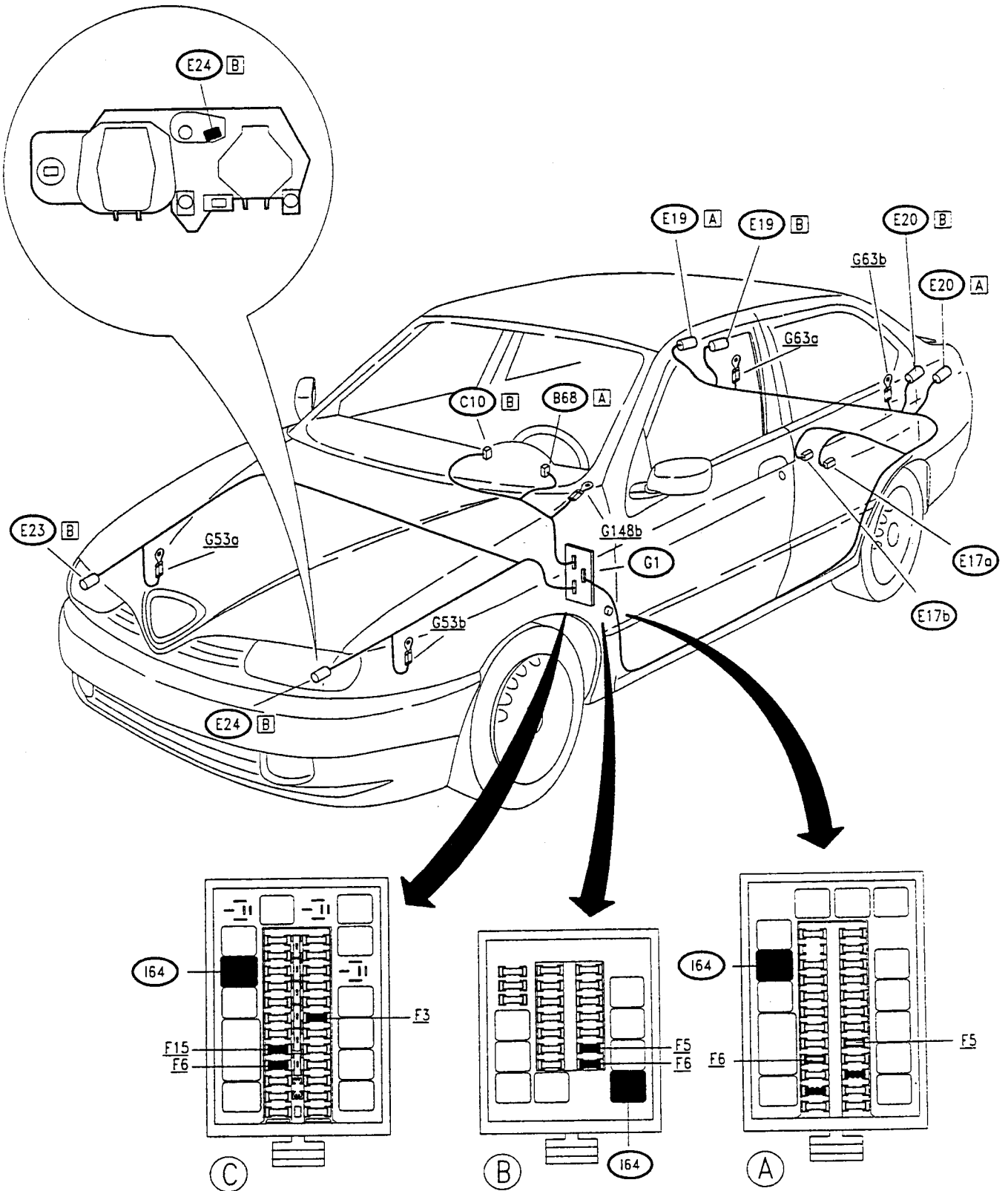
COMPONENTS AND CONNECTORS (cont.d)



COMPONENTS AND CONNECTORS (cont.d)

<p>Fusebox G1 I</p>		<p>Fusebox G1 J</p>	
<p>Fusebox G1 N</p>		<p>RH engine compartment earth G53a</p>	
<p>Left hand engine compartment earth G53b</p>		<p>RH rear earth G63a</p>	
<p>LH rear earth G63b</p>		<p>LH earth under dashboard G148b</p>	

LOCATION OF COMPONENTS



FAULTFINDING TABLE

Failure	Component to be checked											
	F5	F6	E23	E24	E19	E20	E17a	E17b	I64	B68	C10 (*)	
All the side lights										•	•	
Front right	•		•									
Front left		•		•								
Right rear (two lamps)		•			•							
Left rear (two lamps)	•					•						
Right number plate	•							•				
Left number plate		•					•					
Side lights warning light	•											•

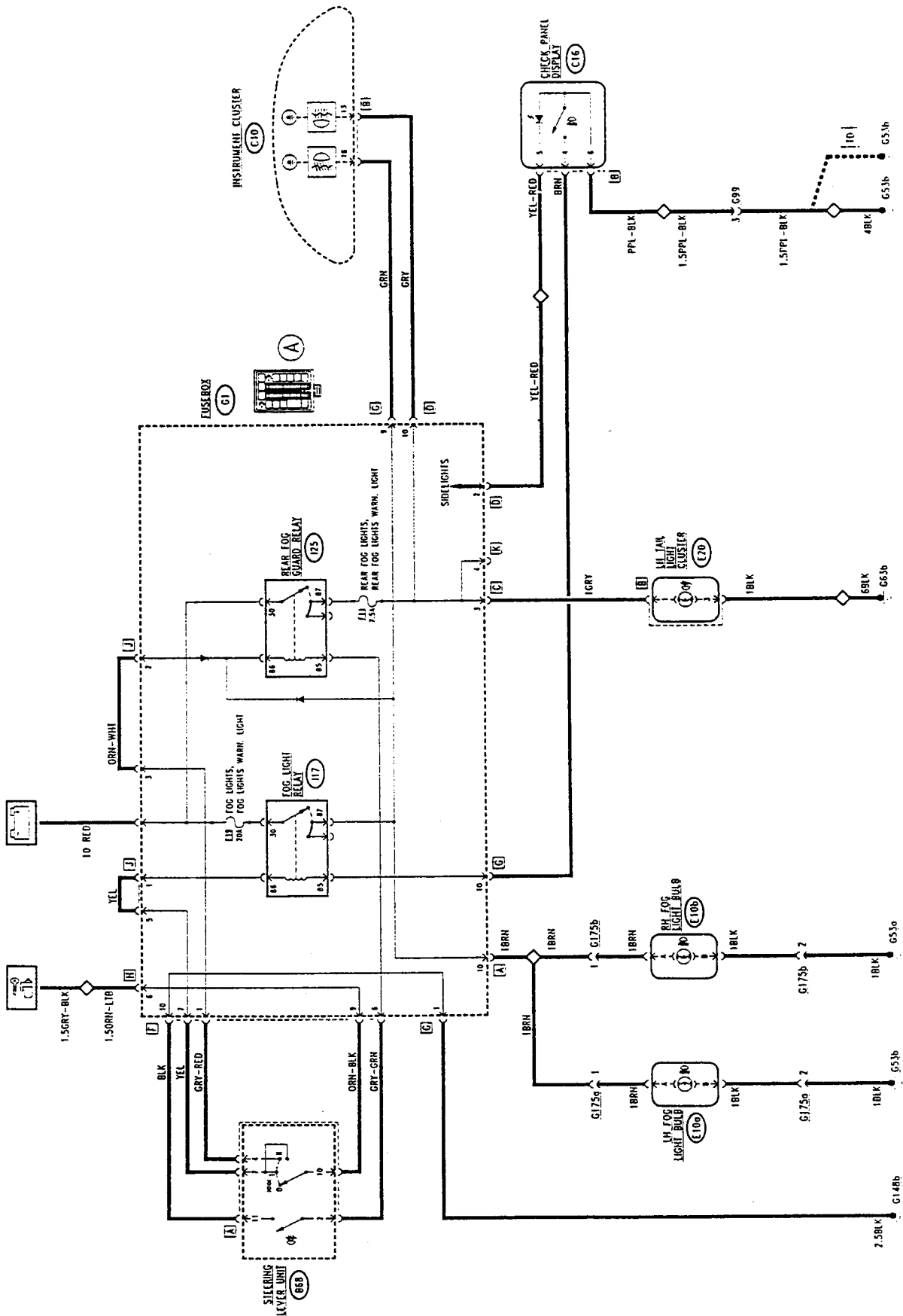
(*) The instrument cluster C10 cannot be repaired. Therefore, in the event of a failure it is not possible to change the single warning light and a new complete cluster must be fitted.

FOG LIGHTS AND REAR FOG GUARDS

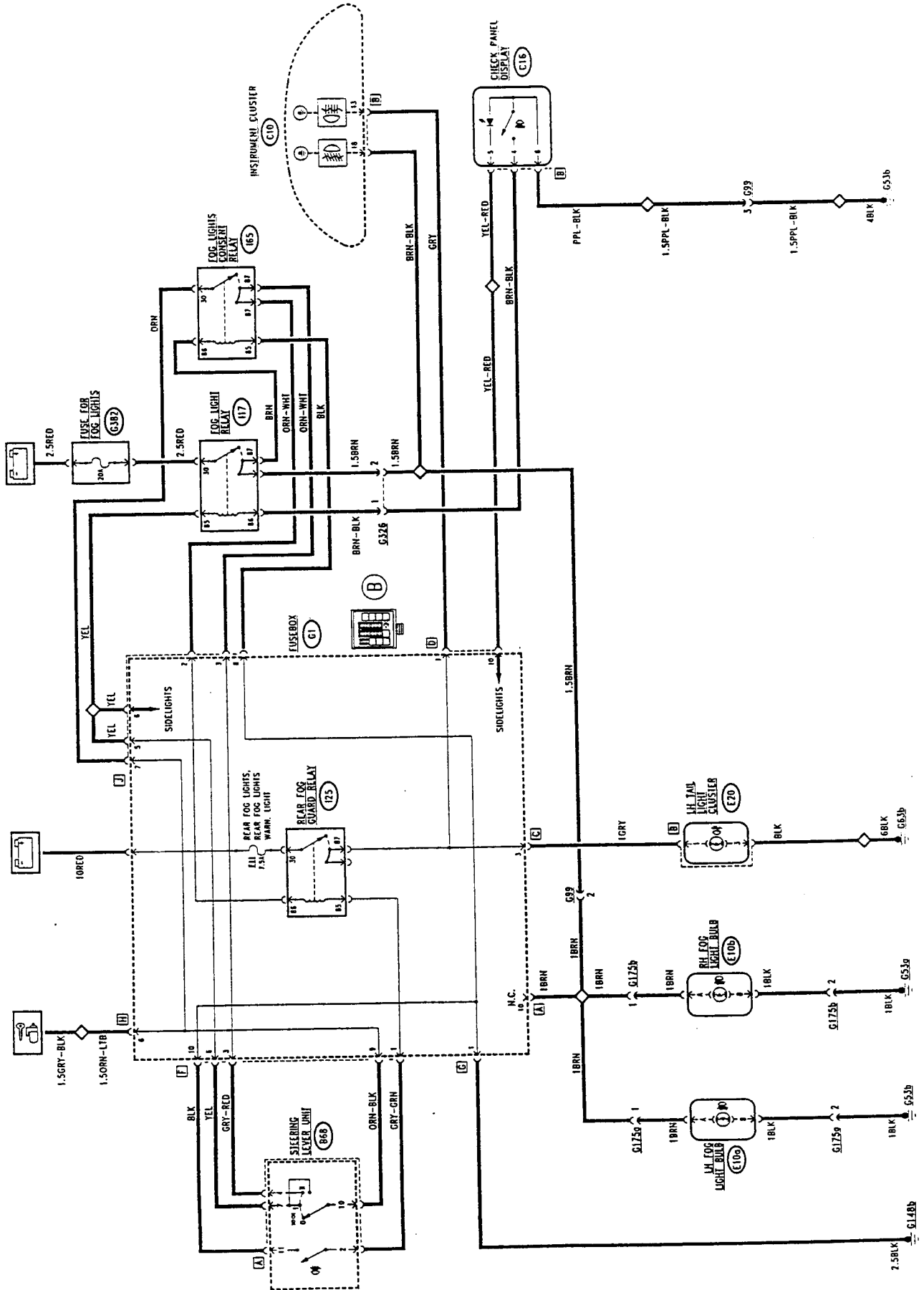
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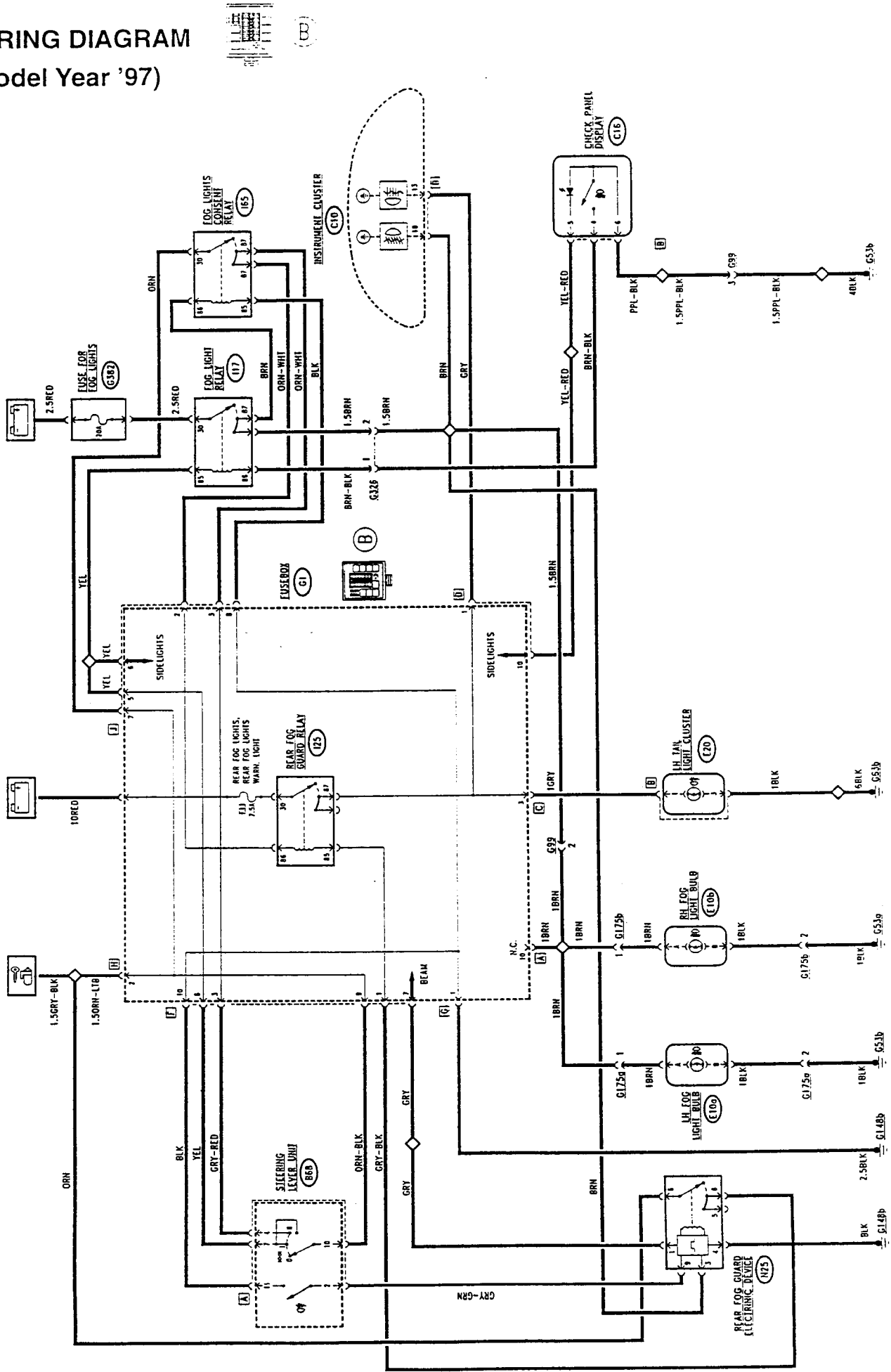
WIRING DIAGRAM



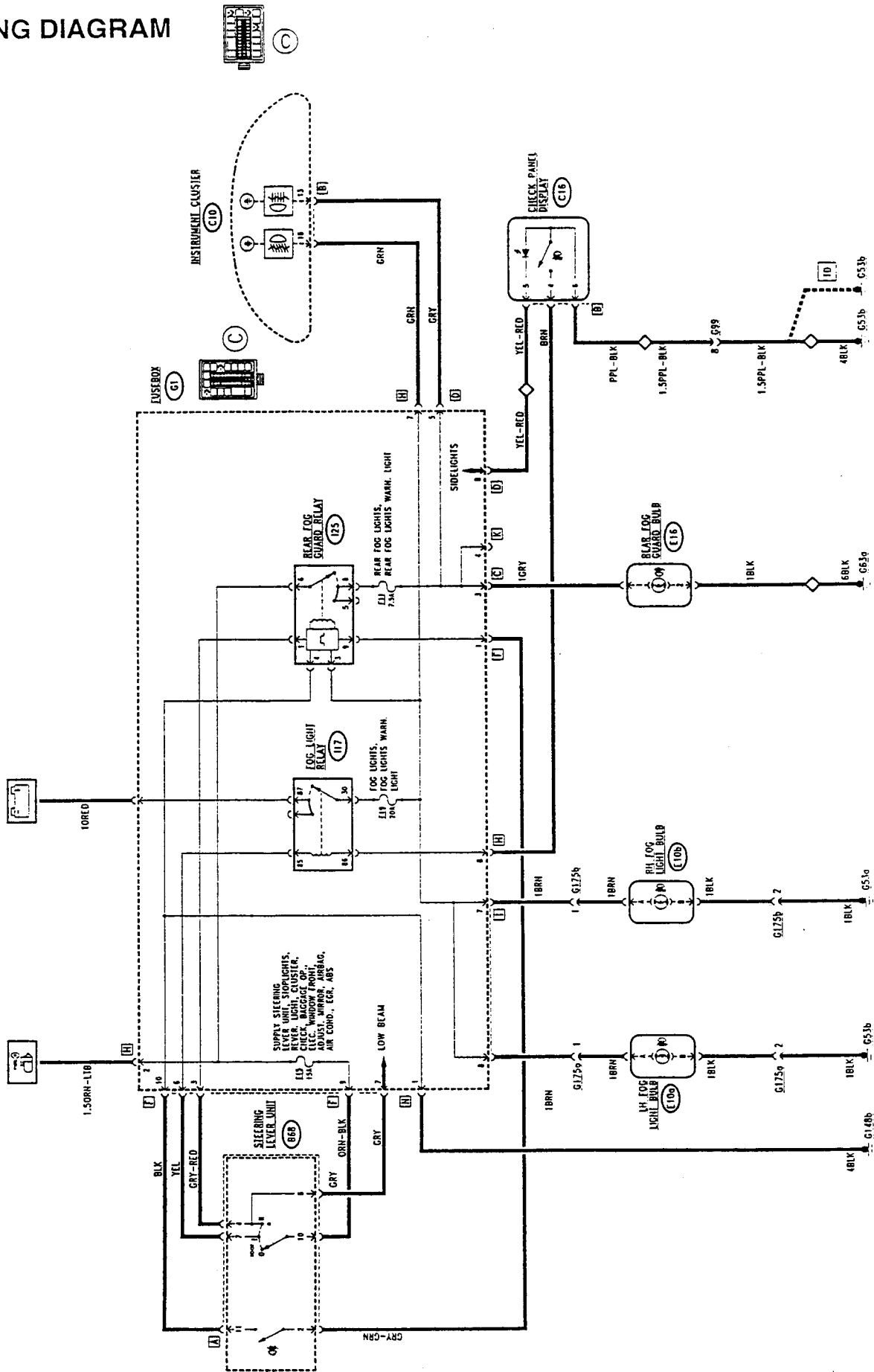
WIRING DIAGRAM



WIRING DIAGRAM (Model Year '97)



WIRING DIAGRAM



GENERAL DESCRIPTION

Upon request the car is fitted with special halogen fog lights, while the high luminosity rear fog guard is a standard item. This is located in the rear light cluster on the lefthand side of the tailgate and it is necessary under low visibility conditions.

Thus the entire system ensures the best possible active and passive visibility under all circumstances. The fog lights are turned on by the switch on the dashboard inside the Check Panel, while the rear fog guard is turned on by the control on the lever unit.

The fog lights can be turned on when the side lights are on, while the rear fog guard can be turned on only with the low beam headlights or fog lights on (they turn off when these are turned out) and, from Model Year '97, they must be turned on again the next time the engine is started (key at MARCIA).

A warning light on the instrument panel indicates that the fog lights are on and another one indicates that the rear fog guard is turned on.

Each of the two circuits is protected by a fuse.


NOTE

The versions for some countries are fitted with "Daylights" i.e. side lights that always stay on when the ignition key is turned and a different logic for turning on the low beam lights, fog lights and rear fog guards. In this case, the present section should be considered complementary to the "Daylights" section which should therefore be consulted first.

FUNCTIONAL DESCRIPTION

Fog lights

The circuit for the fog lights is controlled by the corresponding relay switch I17 located in fuse box G1 (box "A" or "C") or near to it (box "B").

By operating the switch  located in the Check Panel C16, with the side lights on (lever unit switch B68 in position "I") an earth is sent which energizes the coil of relay switch I17 thereby closing the circuit which sends the supply to the two fog lights E10a and E10b.

The steering column lever unit B68 is protected by fuse F15 in fusebox G1 - only for box "C".


The switch in C16 is lit by a led when the side lights are on.

The fog lights circuit is protected by fuse F19 of box G1 (box "A" or "C") or by an outside floating fuse G382 (box "B").

The supply line also sends a signal to the instrument cluster C10 to turn on the corresponding warning light.

Rear fog guard

- Up to Model Year '96


The circuit of the rear fog guard is controlled by the corresponding relay switch I25 located in fusebox G1. If the low beam headlights or the fog lights are on, through the switch on the lever unit  (lever unit switch on position "II"), the supply and earth are sent to the coil of relay switch I25 thereby closing the circuit that sends the supply to the rear fog guard in E20. This consensus logic is carried out in the fusebox "A" by the connection inside the actual box, between pin 87 of I17 and pin 86 of I25. For box "B" there is a special relay switch I65, located near the box, which is energized when the fog lights are on, thus supplying relay switch I25 when the low beam lights or the fog lights are on.

The rear fog guard circuit is protected by fuse F11 in box G1.

The supply line also sends a signal to the instrument panel C10 to turn on the corresponding warning light.

- From Model Year '97

The rear fog guard circuit is controlled by device N25 to be found next to fusebox G1 (box "A" or "B") inside fusebox G1 (box "C").

Device N25 receives the "key-operated" supply at pin 6; pin 4 is earthed, while at pin 9, 3 and 1 it receives the control and enable signals, which are respectively: request to turn the lights on (by the special switch  on the lever unit B68); fog lamps on (the same signal of the fog lamp warning light) and low beam headlights on (from lever unit B68); when the request to turn on the lights is accompanied by one of the two enable signals, device N25 closes the circuit on pin 8 which energises relay I25 (box "A" or "B"). For box "C" the line from pin 8, protected by fuse F11 of G1, supplies directly the lamp E20.

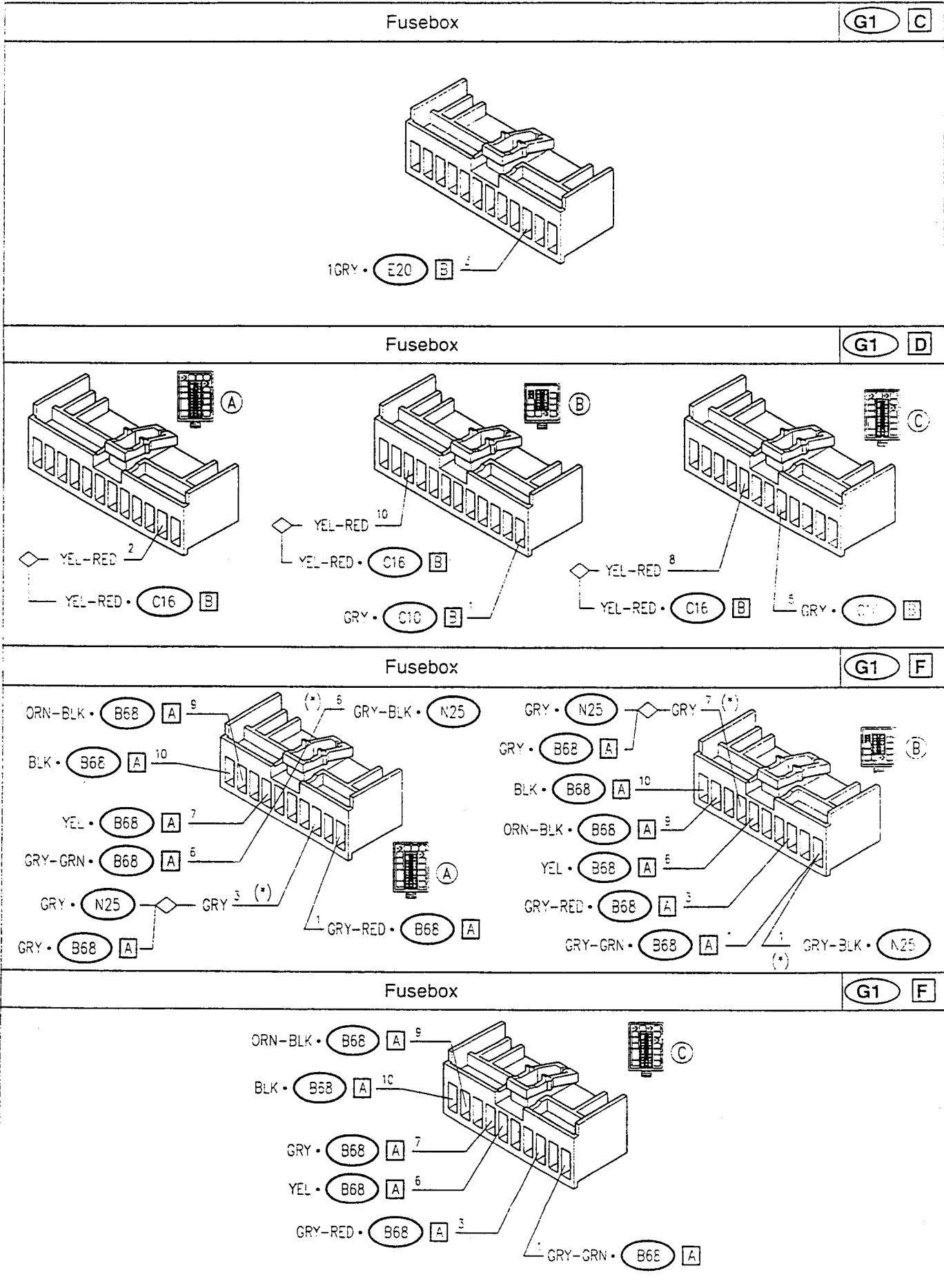
The device turns off the lights if it "loses" the "key-operated" signal; when the key is moved back to MARCIA, the reversing lights are turned on only pressing switch B68 again.

COMPONENTS AND CONNECTORS

<p>Lever unit (B68) (A)</p>	<p>Instrument cluster (C10) (B)</p>
<p>Check Panel display (C16) (B)</p>	<p>LH fog light bulb (E10a)</p>
<p>RH fog light bulb (E10b)</p>	<p>LH tail light cluster (E20) (B)</p>
<p>Fusebox (G1)</p>	<p>Fusebox (G1) (A)</p>

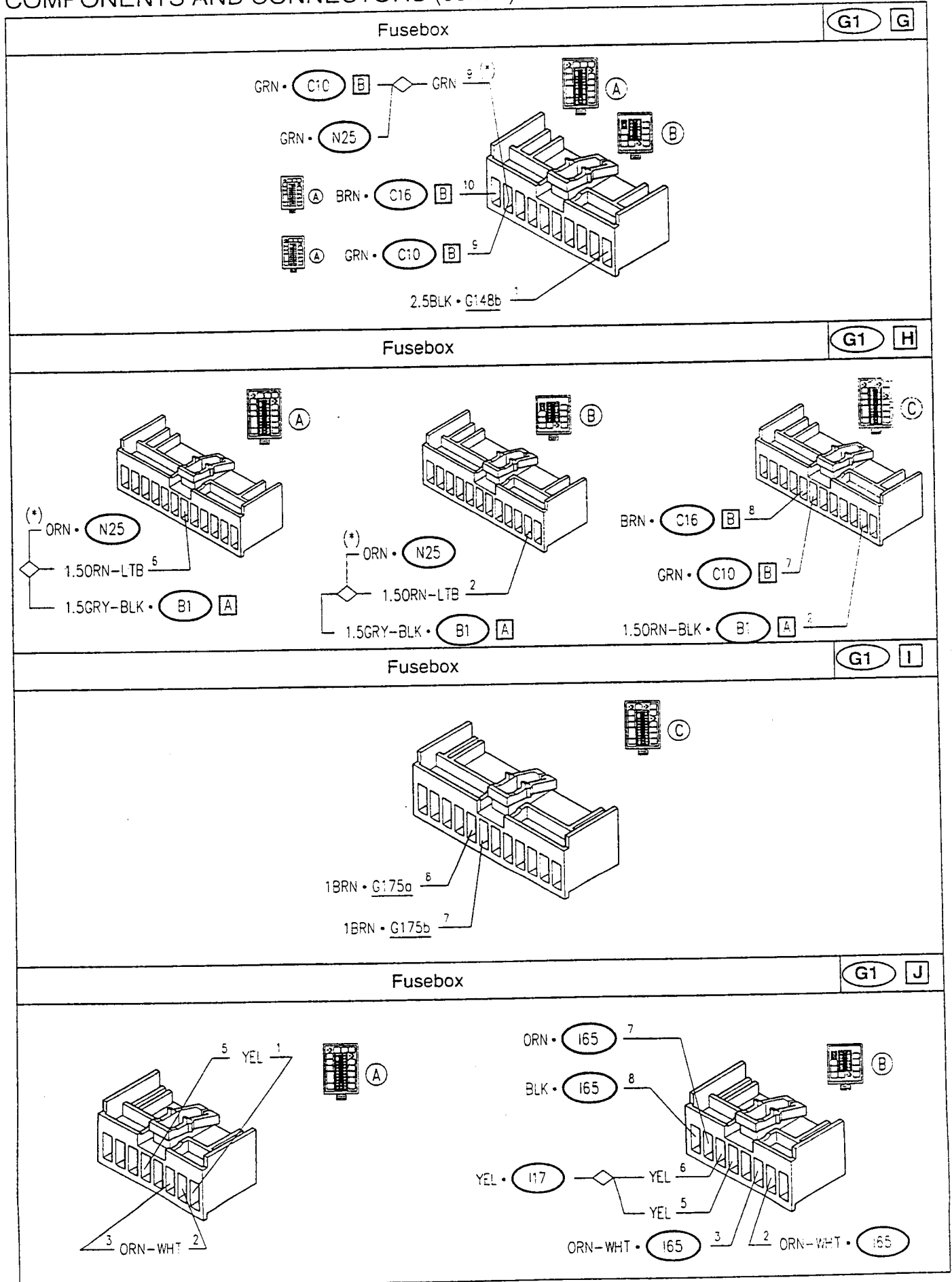
(*) from M.Y. '97
PA493000000008

COMPONENTS AND CONNECTORS (cont.d)

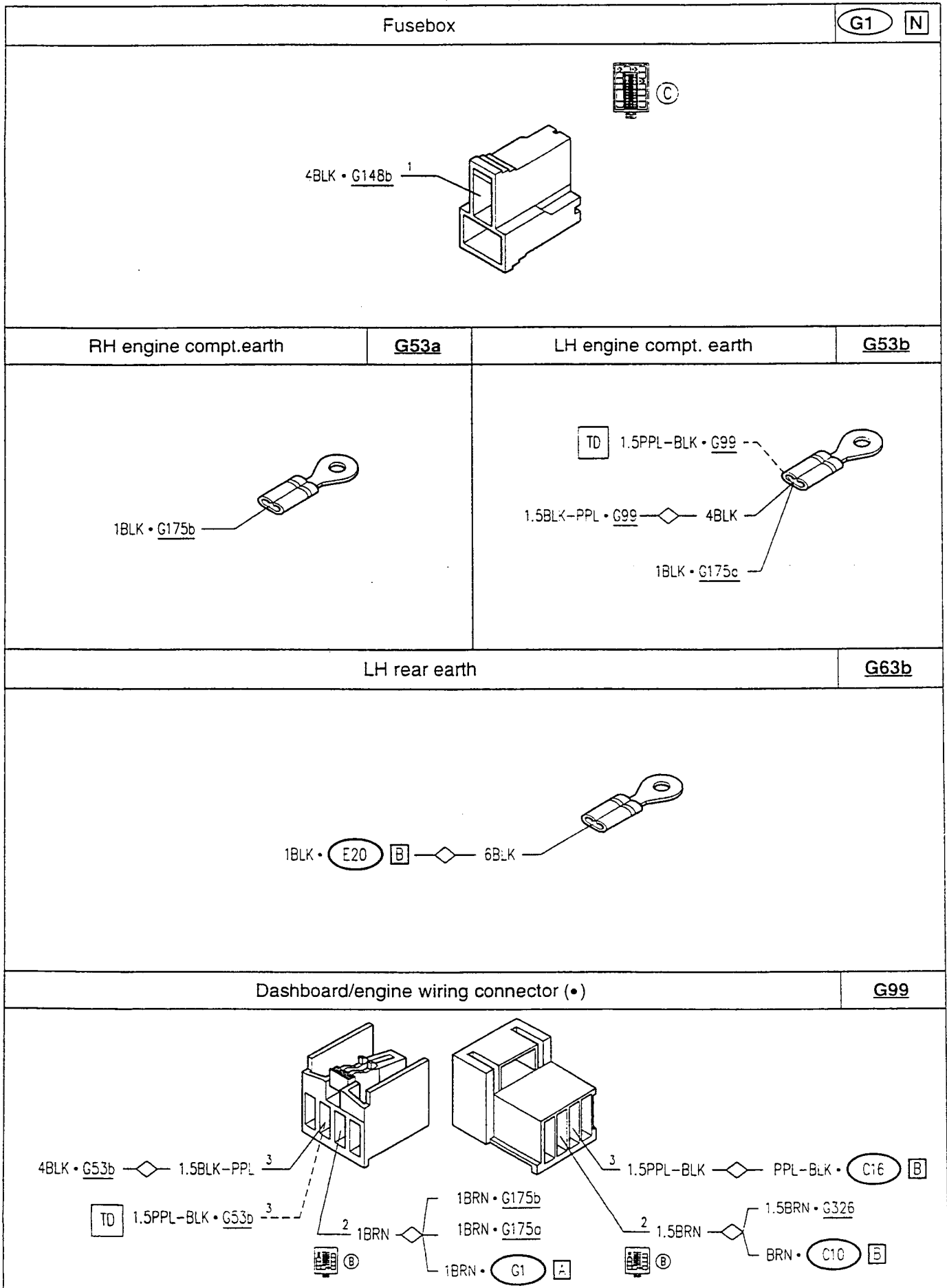


(*) from M.Y. '97
PA493000000008

COMPONENTS AND CONNECTORS (cont.d)



COMPONENTS AND CONNECTORS (cont.d)



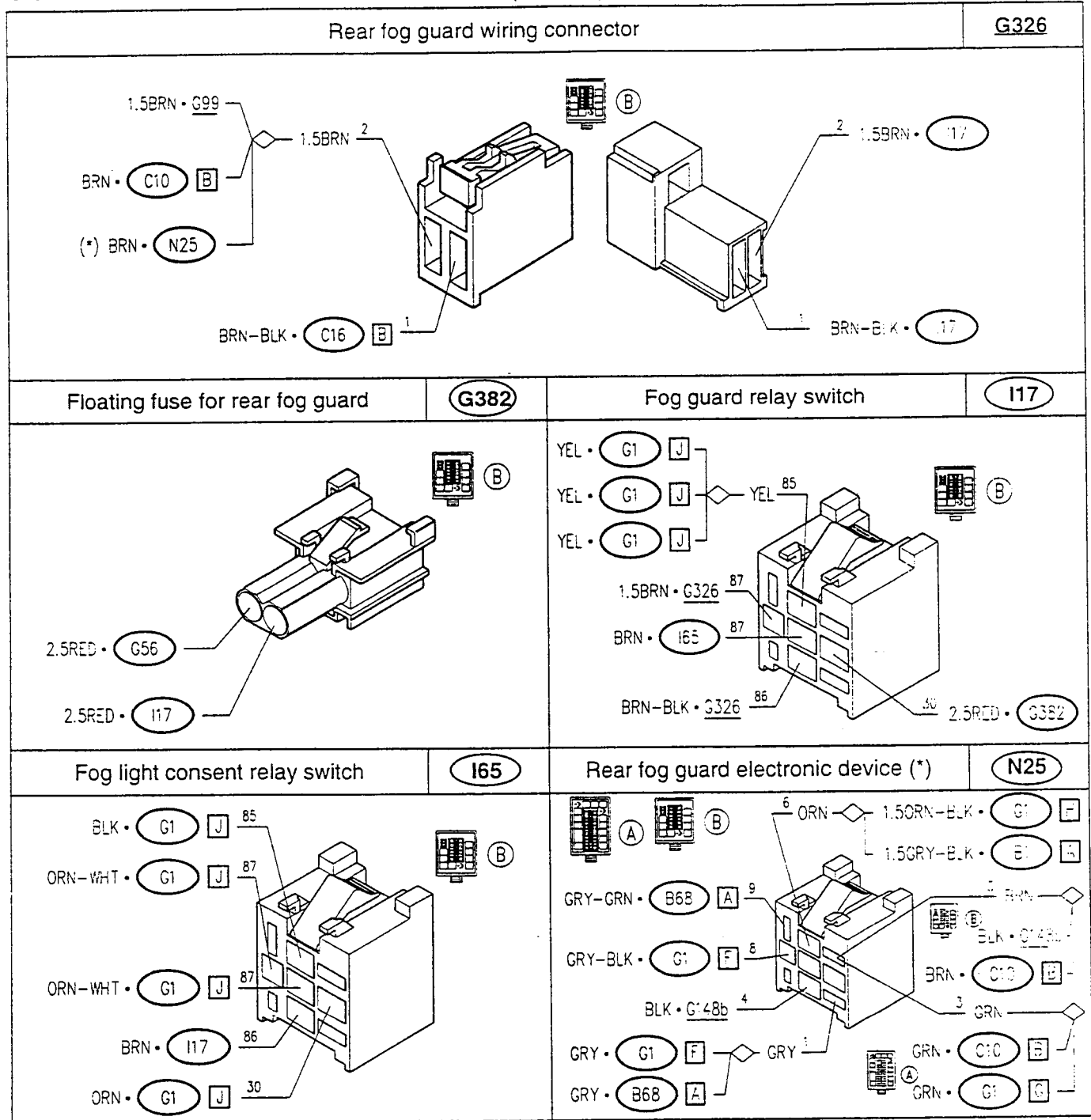
(*) from M.Y. '97
PA49300000008

(•) from chassis no. ____
- 8 -

COMPONENTS AND CONNECTORS (cont.d)

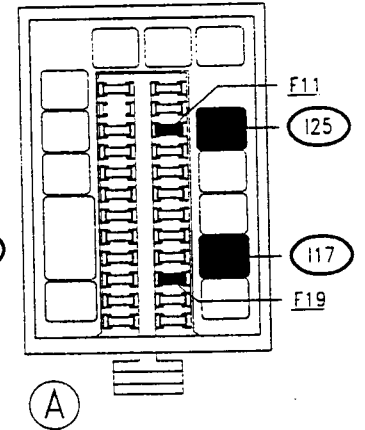
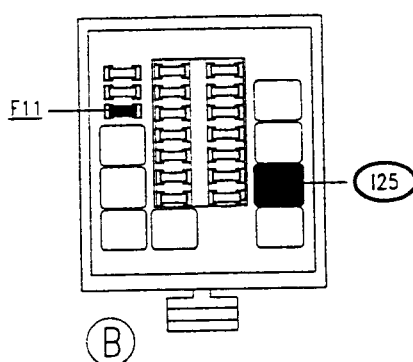
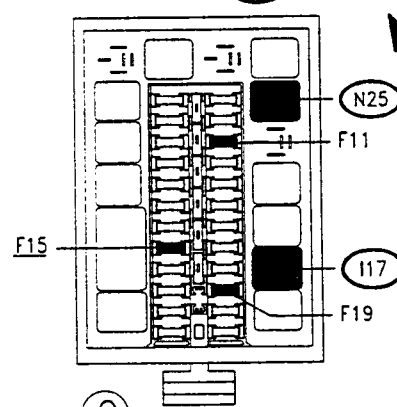
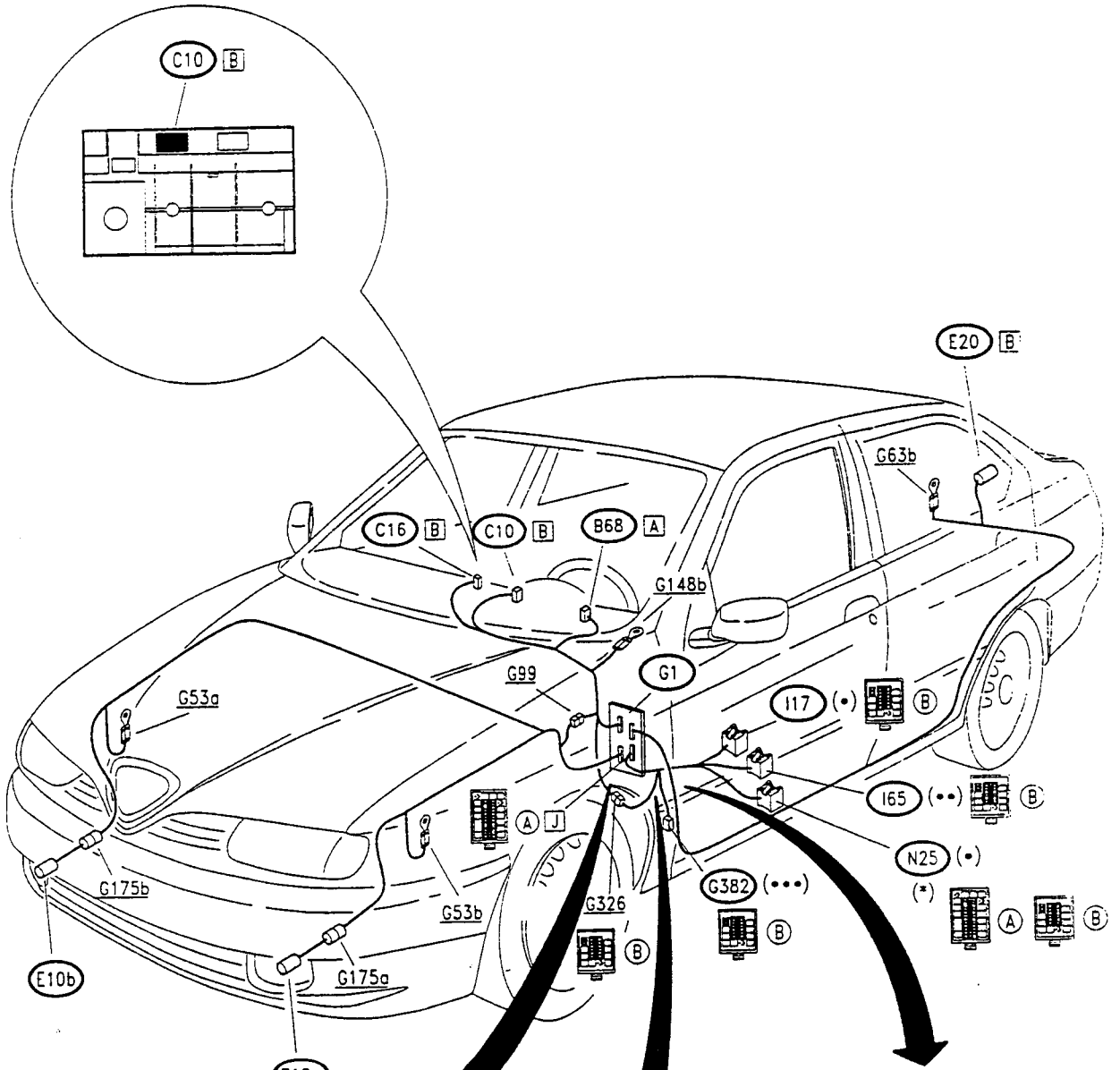
Dashboard/engine wiring connector (•)	G99
Earth under LH dashboard	G148b
LH fog light wiring connector	G175a
RH fog light wiring connector	G175b

COMPONENTS AND CONNECTORS (cont.d)



(*) from M.Y. '97

LOCATION OF COMPONENTS



- (*) from M.Y. '97
- (•) grey base
- (••) grey base
- (•••) yellow fuseholder

FAULTFINDING TABLE

Failure	Component to be checked												
	F11	E20	F19 (A)	G382 (B)	E10a	E10b	I25	I17	N25 (•)	I65 (B)	B68	C16 (**)	C10 (*)
Rear fog guard	•	•					•		•	•	•		
Fog guard warning light	•								•				•
Both fog lights			•	•				•				•	
RH fog light						•							
LH fog light					•								
Fog light warning light			•	•									•
Lighting. fog light switch (with side lights on)												•	

(*) The instrument cluster **C10** cannot be repaired. Therefore, in the event of a failure it is not possible to change the single warning light and a new complete cluster must be fitted.

(**) The "Check Panel" display **C16** cannot be repaired. Therefore it is not possible to change the fog light switch and a new complete Check Panel must be fitted.

(A) Only fusebox "A"

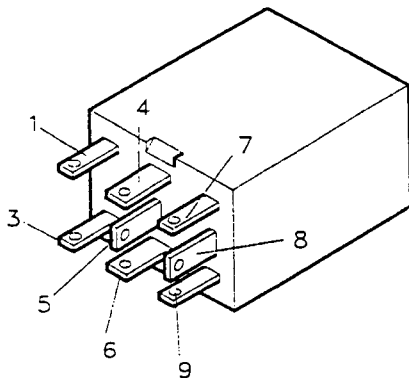
(B) Only fusebox "B"

(•) Only from Model Year '97

CHECKING COMPONENTS

Rear fog guard electronic device

N25



Check the device: see **TEST A**

CHECK REAR FOG GUARD DEVICE (N25)		TEST A	
TEST PROCEDURE		RESULT	CORRECTIVE ACTION
A1	CHECK VOLTAGE	(OK) ►	Carry out step A2
– Disconnect device N25 and check for "key-operated" 12V on the corresponding base at pin 6 of N25		(OK) ►	Restore the wiring between N25 and the ignition switch B1
A2	CHECK EARTH	(OK) ►	Carry out step A3
– Check for 0V at pin 4 of N25		(OK) ►	Restore the wiring between N25 and earth G143b
A3	CHECK CONTROL/ENABLE SIGNALS	(OK) ►	Insert device N25 on its base and continue with step A4
– Check the following signals on the pins of N25: • 0V at pin 9, turning on the fog guard switch in B68, • 12V at pin 3, turning on the fog lamps, • 12V at pin 1, turning on the low beam headlamps		(OK) ►	Check connection between N25, connector 1 of G1 and the lever unit B66
A4	CHECK VOLTAGE	(OK) ►	DEVICE N25 IS WORKING PROPERLY Check the connections with the other components
– Turn on the fog guards with the low beam headlamps on or fog lamps on and check for 12V at pin 8 and 5 of N25		(OK) ►	REPLACE DEVICE N25