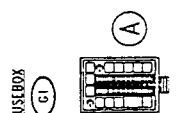


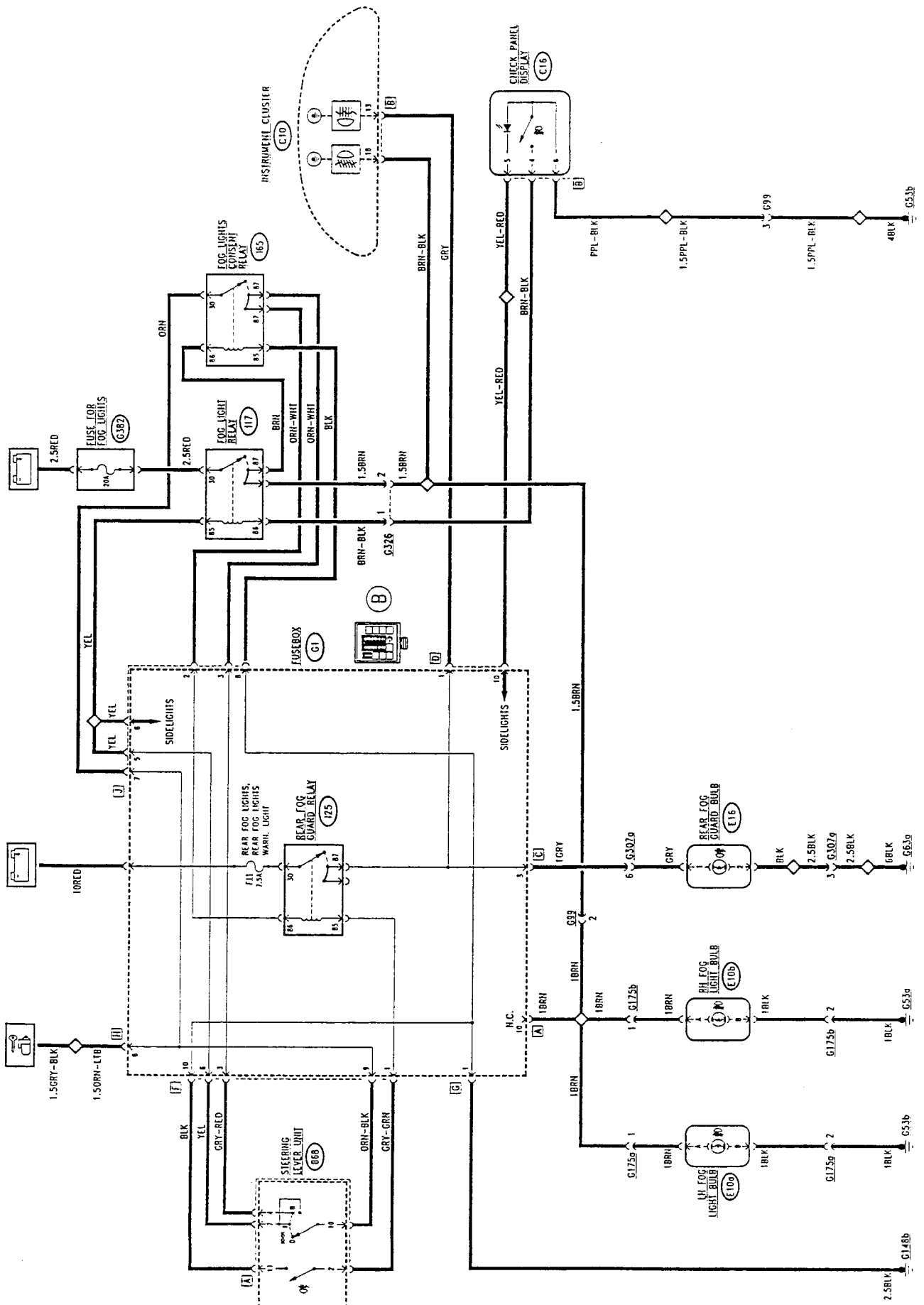
FOG LIGHTS AND REAR FOG GUARDS

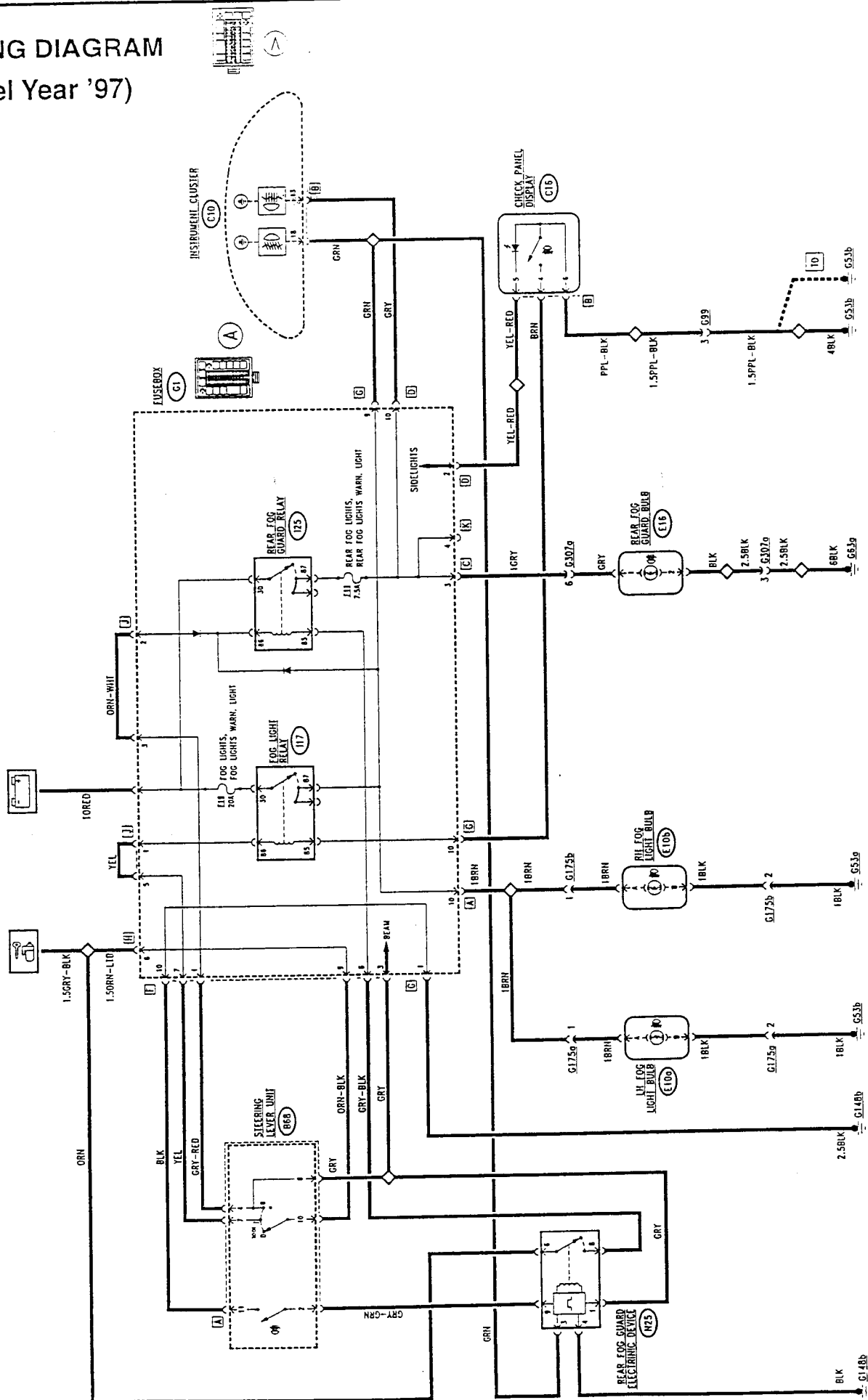
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A diagram showing a 4x4 grid of squares. The central 2x2 area of the grid is shaded. To the right of the grid is a circle containing the letter 'A'.

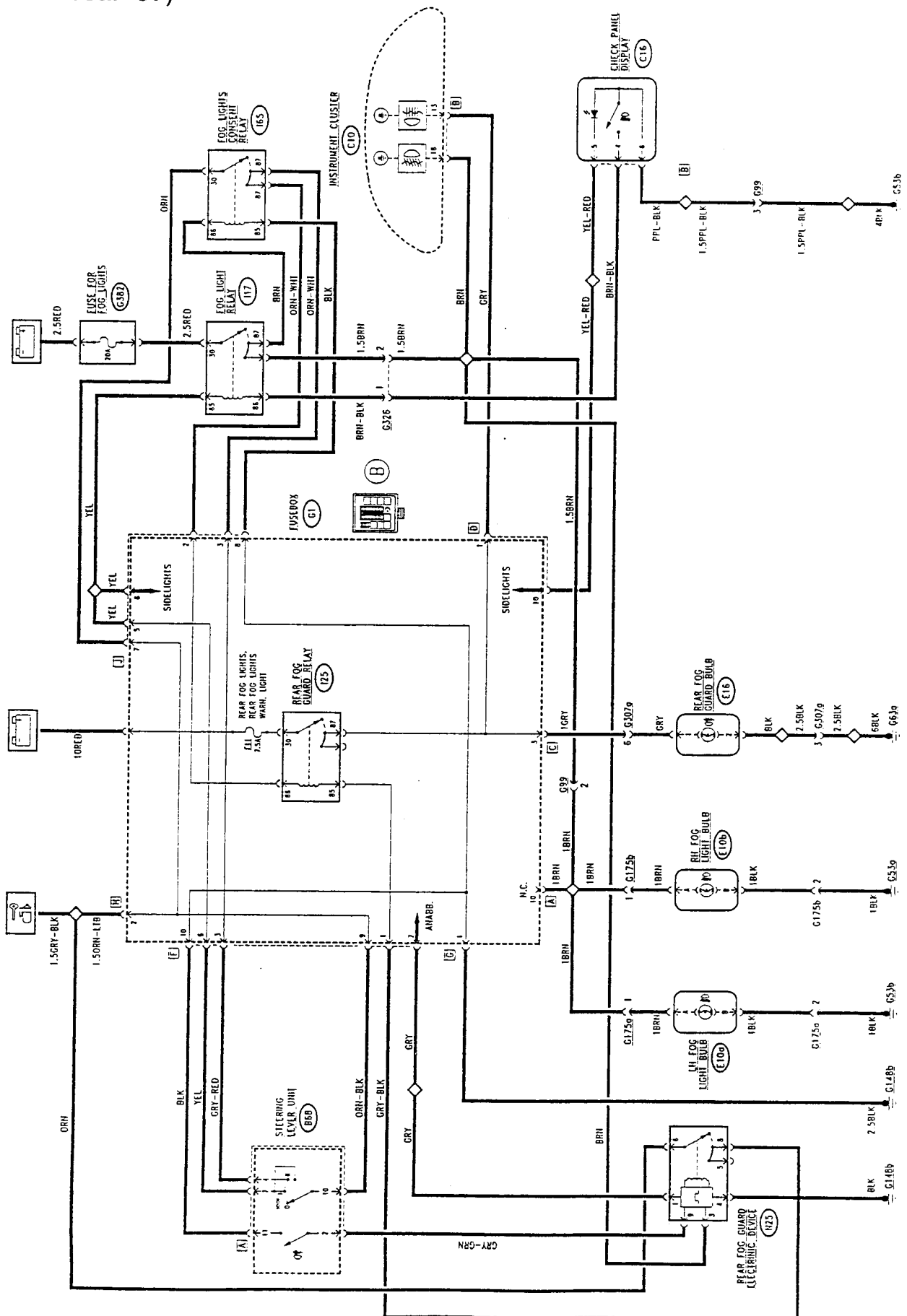




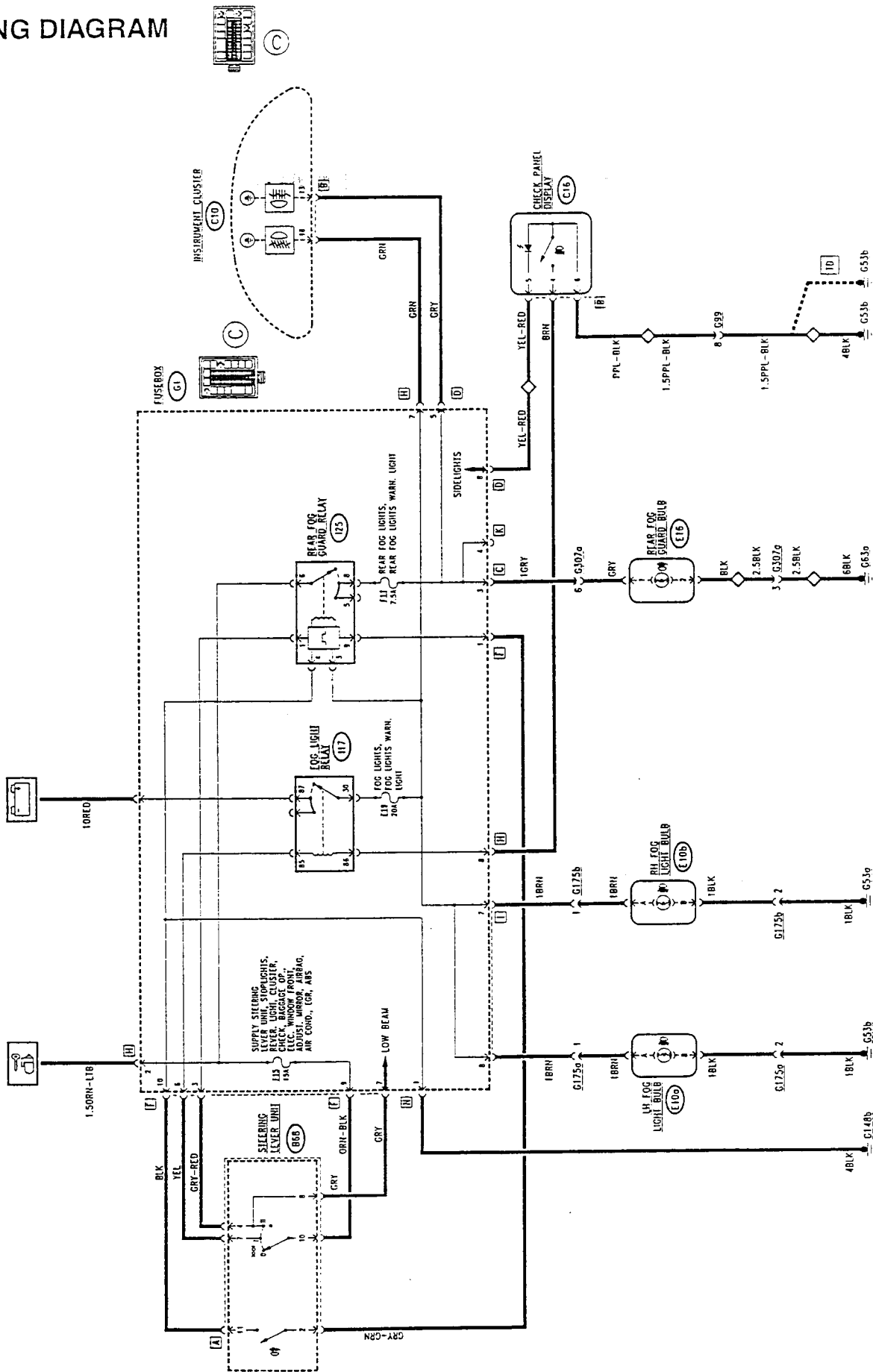
WIRING DIAGRAM
(Model Year '97)

WIRING DIAGRAM
(Model Year '97)

(B)



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 "Day-lights" 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 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 **E16**. 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").

The fog guard circuit is operated by device **N25** located next to the fusebox **G1**.

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 **E16**.

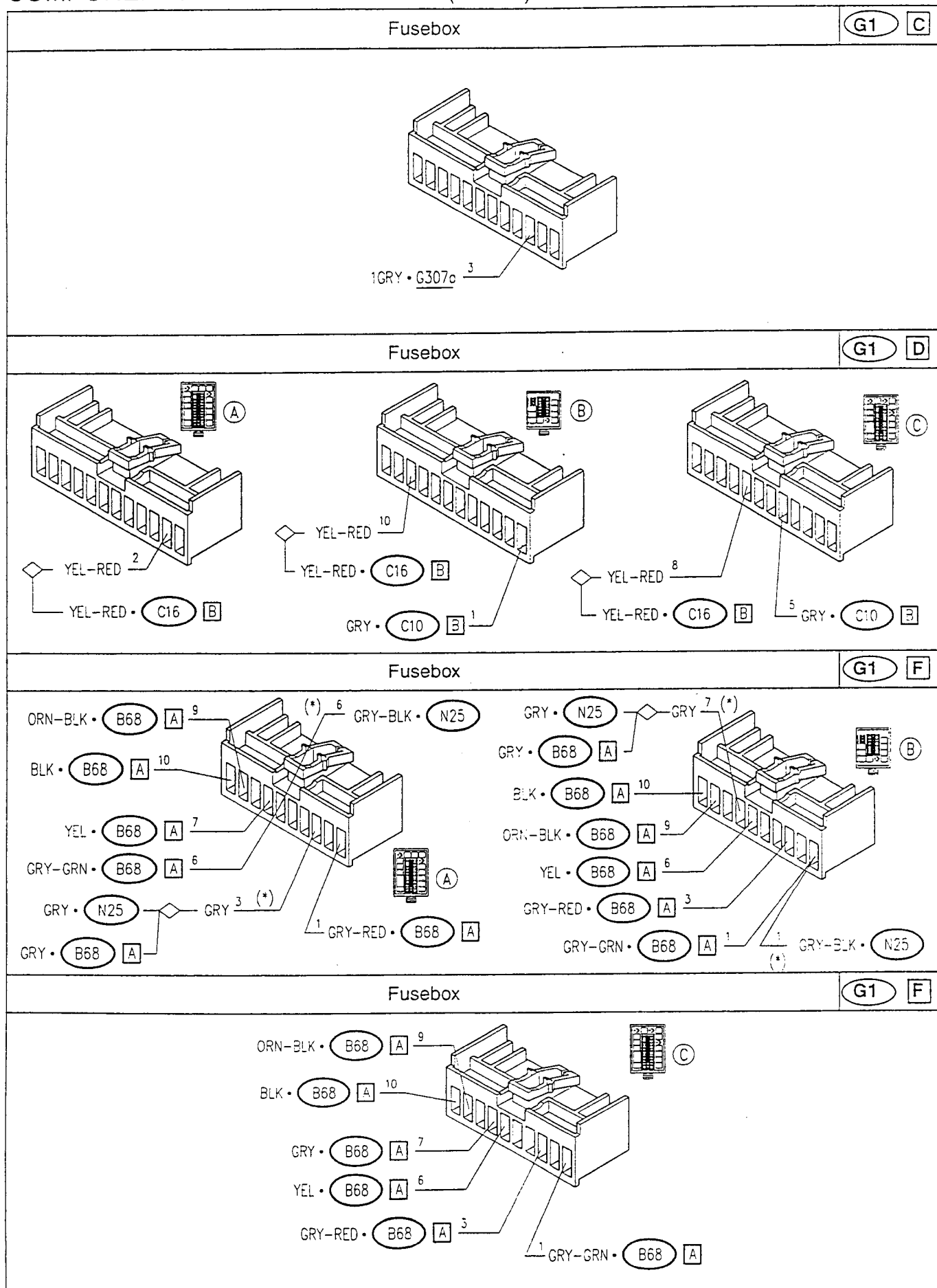
The device turns off the lights if it "loses" the "key-operated" signal; when the key is moved back to MARCIA, the reversing lights are turned on only pressing switch **B68** again.

COMPONENTS AND CONNECTORS

Lever unit (B68) [A]	Instrument cluster (C10) [B]
Check Panel display (C16) [B]	LH fog light bulb (E10a)
RH fog light bulb (E10b)	Rear fog guard bulb (E16)
Fusebox (G1)	Fusebox (G1) [A]

(*) from M.Y. '97
PA493000000008

COMPONENTS AND CONNECTORS (cont.d)



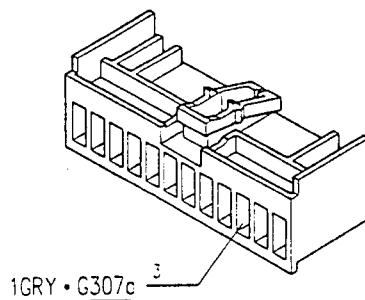
COMPONENTS AND CONNECTORS

Lever unit (B68) [A]	Instrument cluster (C10) [B]
Check Panel display (C16) [B]	LH fog light bulb (E10a)
RH fog light bulb (E10b)	Rear fog guard bulb (E16)
Fusebox (G1)	Fusebox (G1) [A]

COMPONENTS AND CONNECTORS (cont.d)

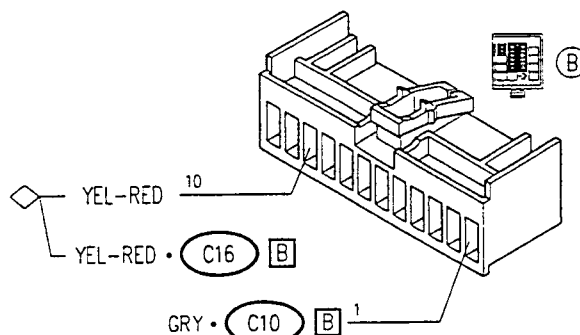
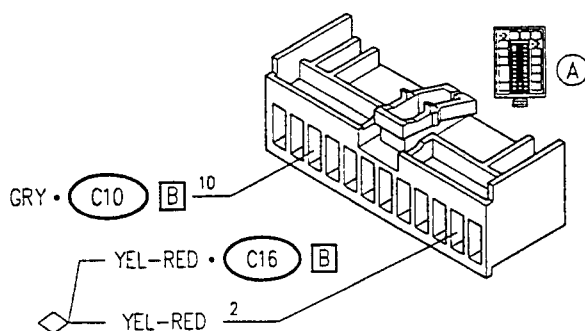
Fusebox

G1 C



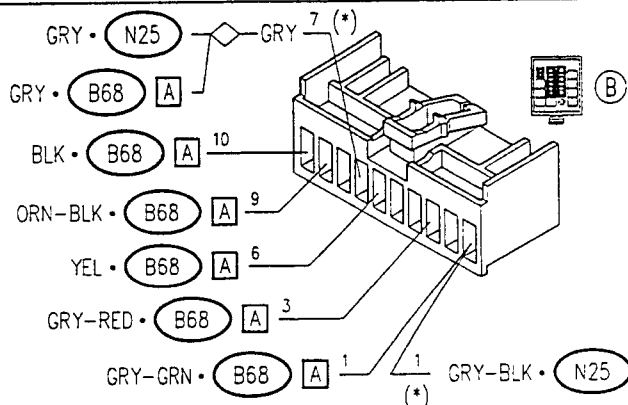
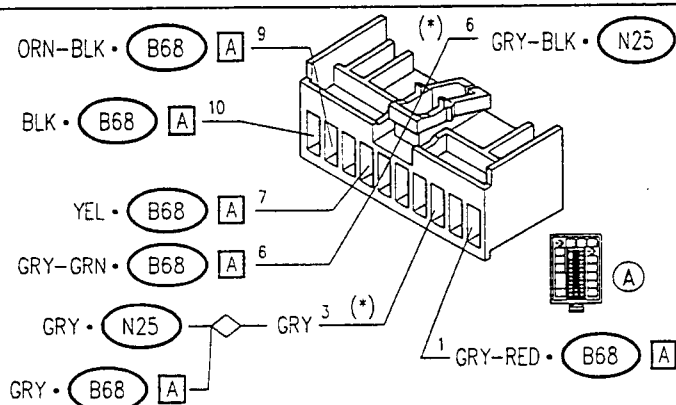
Fusebox

G1 D



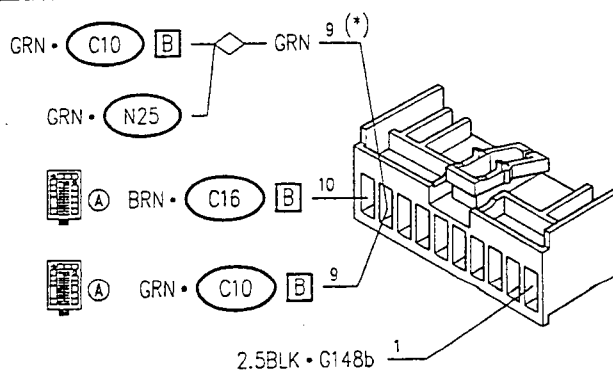
Fusebox

G1 F



Fusebox

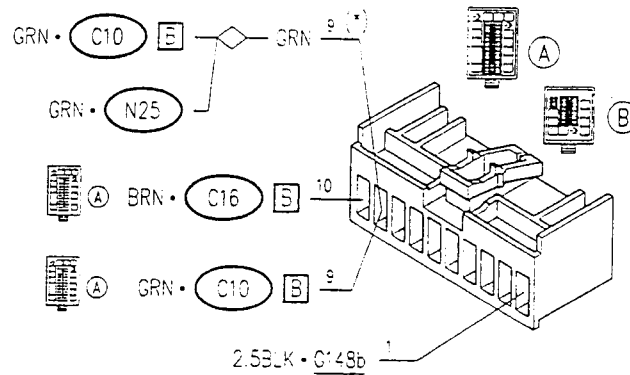
G1 G



COMPONENTS AND CONNECTORS (cont.d)

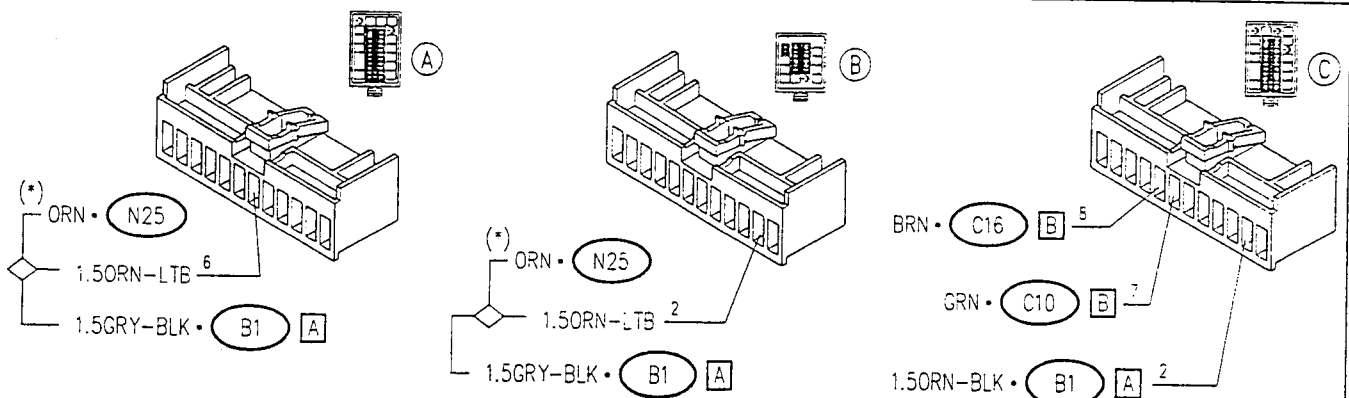
Fusebox

G1 G



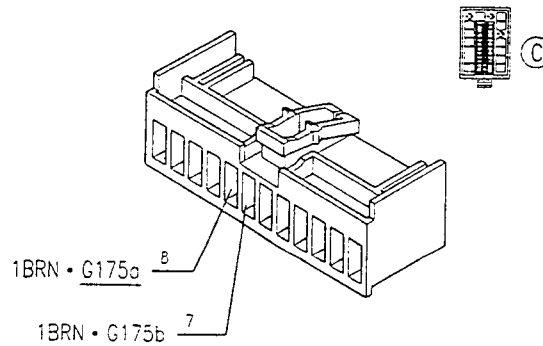
Fusebox

G1 H



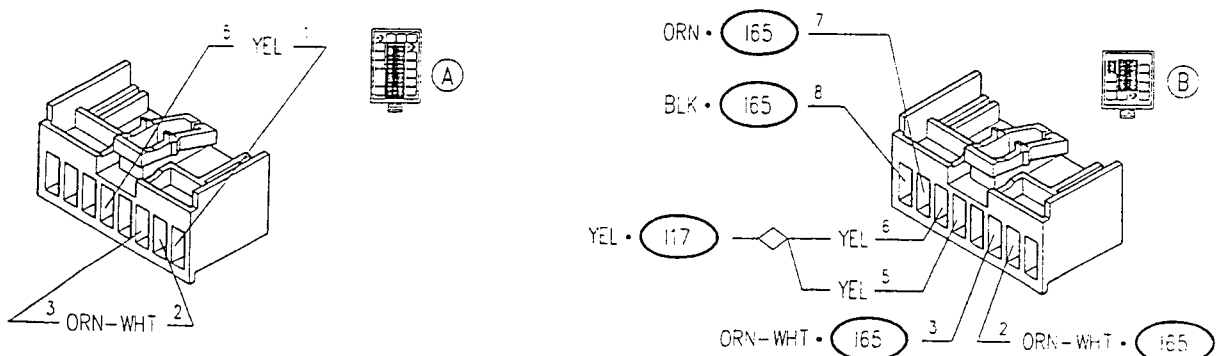
Fusebox

G1 I



Fusebox

G1 J

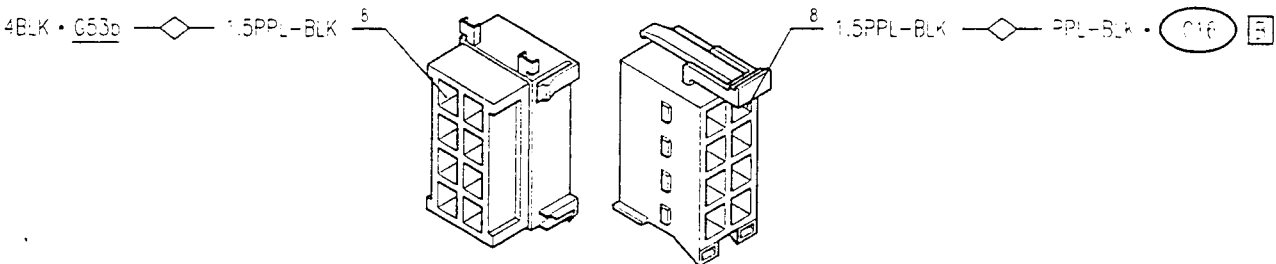
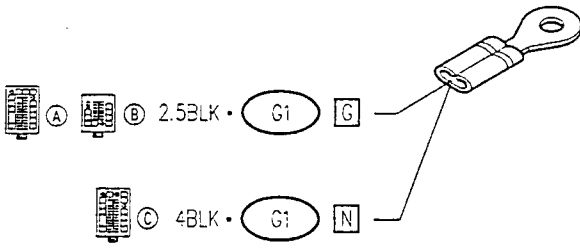
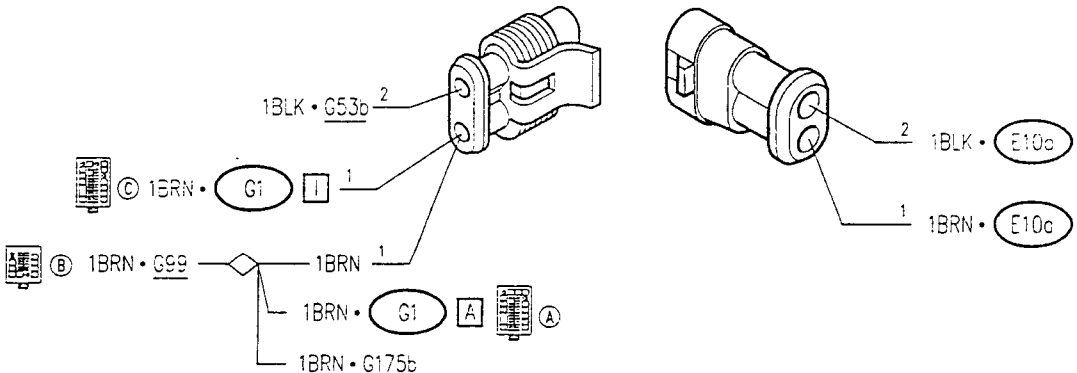
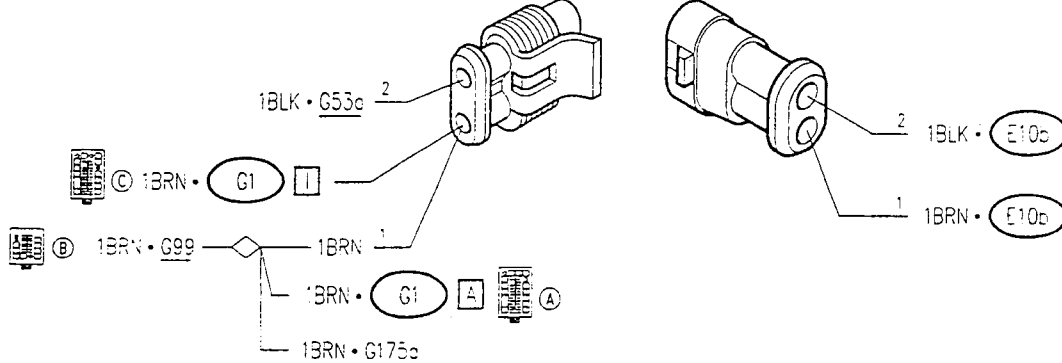


COMPONENTS AND CONNECTORS (cont.d)

Fusebox		G1 N	
</			

(*) up to chassis no. PA493000000008

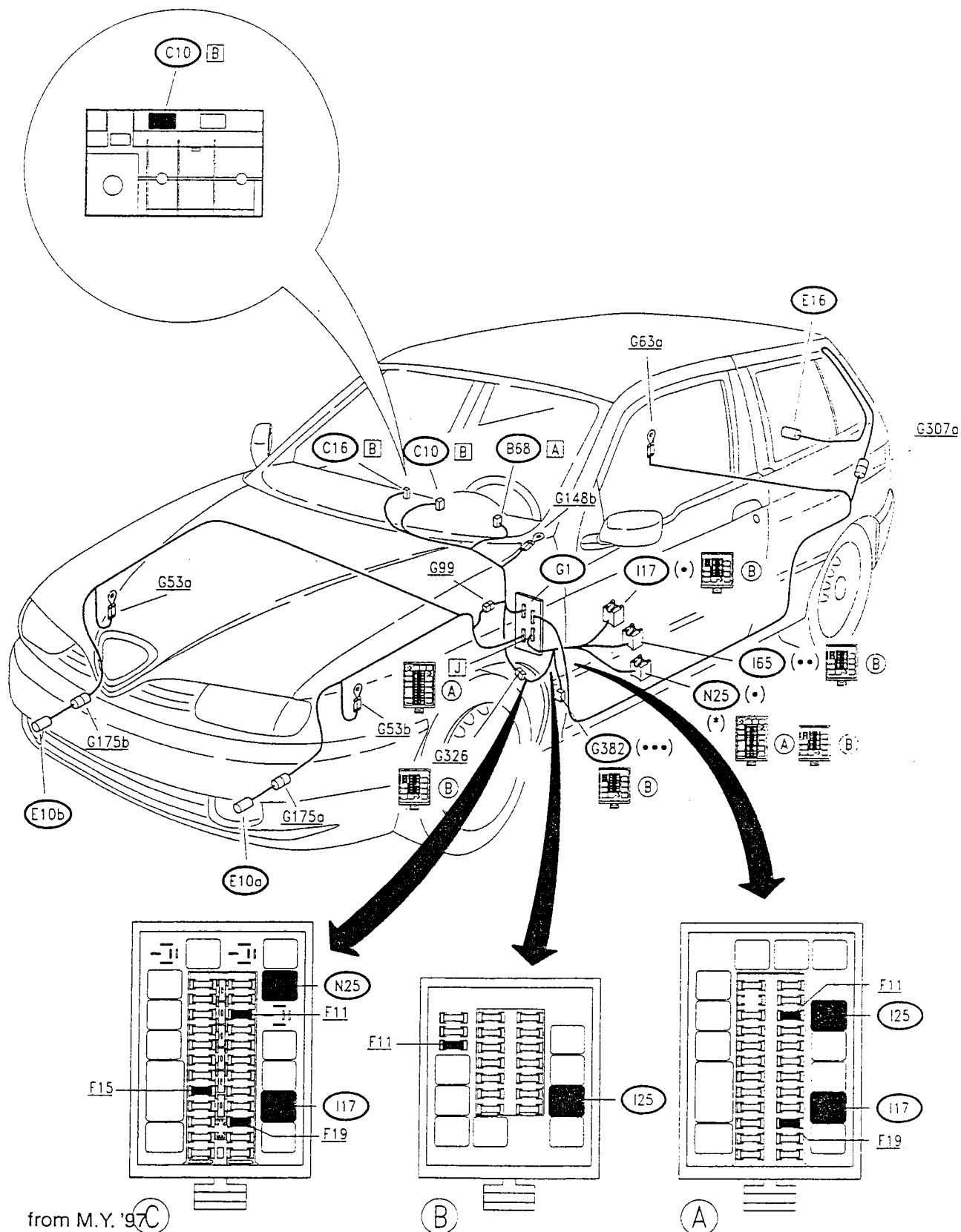
COMPONENTS AND CONNECTORS (cont.d)

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)

Rear/luggage compt. wiring connector A		G307a
Rear fog guard wiring connector		G326
Floating fuse for rear fog guard	G382	I17
Fog guard relay switch		I17
Fog light consent relay switch		I65
Rear fog guard electronic device		N25

LOCATION OF COMPONENTS



FAULTFINDING TABLE

Failure	Component to be checked												
	F11	E16	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"

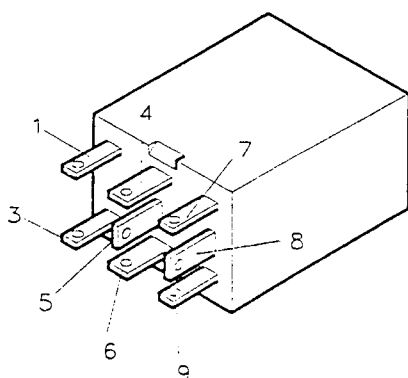
(B) Only fusebox "B"

(•) 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 – Disconnect device N25 and check for "key-operated" 12V on the corresponding base at pin 6 of N25		 ►	Carry out step A2
		 ►	Restore the wiring between N25 and the ignition switch B1
A2 CHECK EARTH – Check for 0V at pin 4 of N25		 ►	Carry out step A3
		 ►	Restore the wiring between N25 and earth G143b
A3 CHECK CONTROL/ENABLE SIGNALS – 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		 ►	Insert device N25 on its base and continue with step A4
		 ►	Check connection between N25 , connector 1 of G1 and the lever unit B66
A4 CHECK VOLTAGE – 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		 ►	DEVICE N25 IS WORKING PROPERLY Check the connections with the other components
		 ►	REPLACE DEVICE N25