

First, sorry for some translation error...

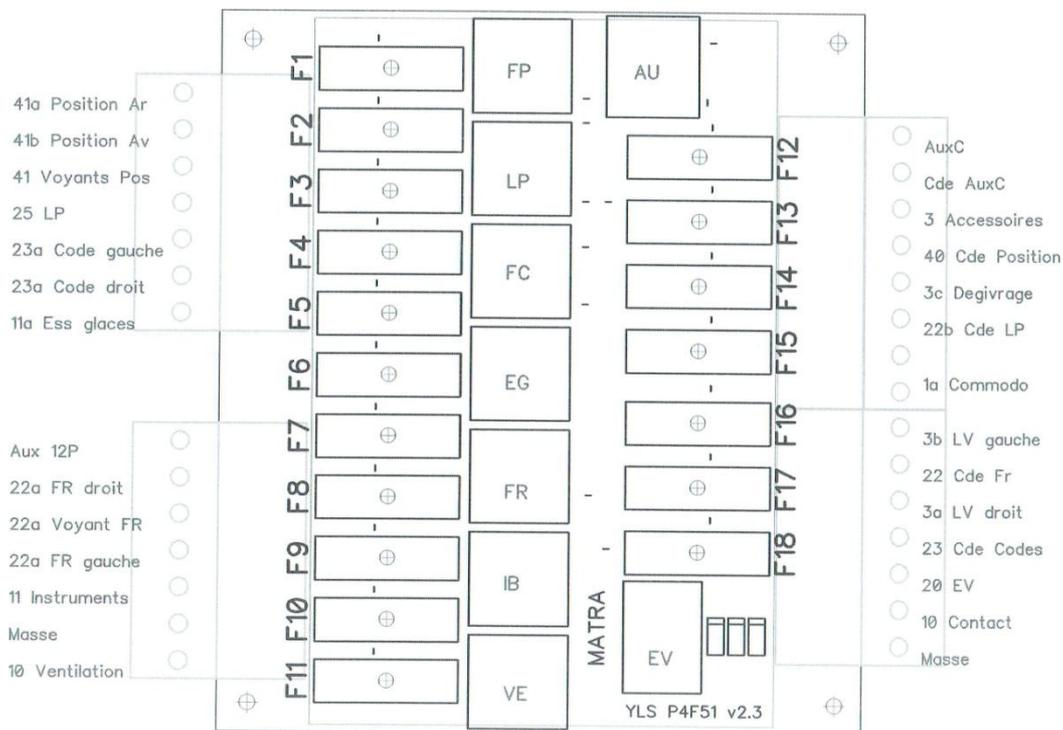
Board

There is 17 wires going out of the board, so we should have ~17 fuses...

We need also to limit contact resistance as much as possible,

Relieve the electrical harness as much as possible,

And everything should take place in the existing place. So: :



You have classic relay: Low beam (FC) /High beam (FR) /long range (LP).

Position lights (FP) goes now through a relay.

Window lift relay (LG) is removed (I don't see the point to switch on ignition to operate windows).

One relay (IB) is used for on-board instruments

One relay (EG) is used for wipers.

One relay (VE) is used for ventilation.

A small relay (EV) is used for headlight solenoid valve

Another auxiliary controlled relay (AU) could be used for options like front fog light

Finally we have another output (Aux2) 12V permanent (alarm, central lock...)

Each fuse holder is lined with a small red LED indicating whether the fuse has blow.

Active commands light up a white LED located next to the relay

To eliminates arcs on the contacts of the commodo, each relay are protected with a free wheel diode

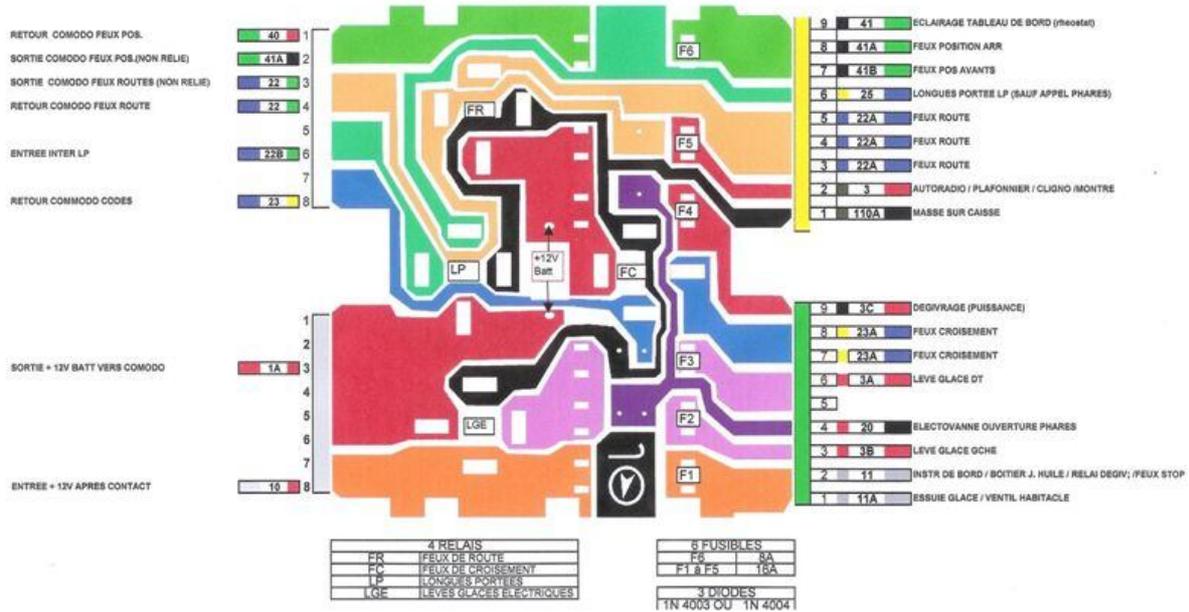
A PVC plate on the back eliminates the risk of a short circuit.

A transparent PVC plate on the top fix the board at the place where the original was..

Installation

First you need to cut original connectors, so : **disconnect the battery before...**

Starting from original board



you will be able to identify each of the wires of each colored connector. For example: on the white connector, the green wire with a red end cap in position 1 corresponds to the position lights control and is wire n ° 40.

You will have to cut the wires (one by one so as not to be mistaken) at the level of the connector, strip ~ 5mm and put them in the new plug-in connectors; which makes the modification irreversible

Do NOT use a crimp end: these connectors have a lamella that presses the wire and distributes the pressure for better contact

At the end, you will also need to cut the large faston terminal on the red power cable and replace it with the eyelet terminal supplied, crimped or better: soldered.

In addition to the original diagram, you will undoubtedly have:

- A gray wire with the red end in position 7 of the gray connector, it is that of the ventilation.
- Two 22a wires on a single terminal, one going back to the dashboard for the indicator light, the other going to the long range switch. They are to be put in the "voyant" location

The right fuse

What you need to know : :

1. It is above all necessary to protect the electrical harness, so do not exceed the maximum acceptable current for the wire opposite (0.6mm² will accept 8A, 3mm² will accept 28A).
2. We must also protect the board and its components. In fact, all the tracks of the printed board are calculated to support more than 20A permanent. With the exception of the defrost wire, this is the wire that will burn before the board if you put 40A fuses.
3. The connectors and relays are designed for 16A or more permanent, there is no individual consumer on a murena which must exceed 15A (20A punctual for the commodo with the horns and LP call)
4. The fuse must not "blow" during normal operation or on transients. With the exception of inductive elements (solenoid valve type), the (protected) consumers of an automobile are resistive, so it is possible to use only a small margin between the nominal current of the consumer and that of the fuse. This is the amperage of the recommended (or supplied) fuses.
5. **Do not forget that the power supply wire of the board is 7mm², ie ~ 50A**, if you allow too much charging, it will set your Murena on fire in the event of a short circuit.

Fuse	Use	Val	Fil
F1	Feux position arriere plaque police	3A	41a
F2	Feux position avant tous les voyants	2A	41b 41
F3	Phares additionnels (hors appel phare)	10A	25
F4	Feu croisement gauche	7.5A	23a
F5	Feu croisement droit	7.5A	23a
F6	Essuis glaces	7.5A	11a
F7	Sortie auxiliaire 12V permanent	10A	
F8	Feu route droit Temoin et retour LP	7.5A	22a 22a
F9	Feu route gauche	7.5A	22a
F10	Instruments	7.5A	11
F11	Ventilation habitacle	15A	10
F12	Sortie auxiliaire commandee	10A	
F13	Accessoires (auto radio, montre...)	7.5A	3
F14	Degivrage	15A	3c
F15	Commodo (klaxon, A phare, AB...)	20A	1a
F16	Leve vitre gauche	10A	3b
F17	Leve vitre droit	10A	3a
F18	Electro vanne	2A	20

On the left, a summary table for a Murena 1.6 (the same for the 2.2 and S):

And some translation:

Feux position arriere, plaque police = Rear position lights, police plate

Feux position avant, tous les voyants = Front position lights, all indicator lights

Phare additionnel = long range beam

Feu croisement gauche = left low beam

Feu croisement droit = right low beam

Feu route droit = right high beam

Temoin et retour LP = high beam indicator and long range switch

Feu route gauche = left high beam

Degivrage = Defrost

Leve vitre gauche = left window lift

Leve vitre droit = right window lift

Electrovanne = solenoid valve