



QPL

(Quick Power Link)

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TECHNOLOGY*



Linea Elettromeccanica | Electromechanical Line



QPL (Quick Power Link)

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La QPL è una scheda per la gestione dell'alimentazione elettrica completa di relè e fusibili.

Razionalizza i cablaggi per la distribuzione della potenza elettrica nei veicoli.

La QPL può essere equipaggiata con il modulo di controllo intelligente "Liberty Link" (pag. 6,7) che sfrutta la rete CAN BUS per la gestione dei relè.

La Liberty Link è programmabile tramite tool VT3

Le versioni qui presentate sono degli standard.



Versioni personalizzate possono essere sviluppate secondo le specifiche necessarie applicazioni.

PLUS

- montaggio facile e veloce
- risparmio di spazio e riduzione dei cablaggi
- facile connessione

The QPL is a board for the electrical power management complete of relays and fuses.

The QPL streamlines the wiring harnesses for the distribution of the electrical power into vehicles.

The QPL can be equipped with the intelligent control module "Liberty Link" (page 6,7) which uses the CAN BUS network to handle the relays.

The Liberty Link is programmable via the VT3 tool.



The versions presented here are the standard.

The customized versions can be developed according to necessary specific applications.

PLUS

- quick and easy installation
- space saving and reduction to wiring harnesses
- easy connection

QPL (Quick Power Link)

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SPECIFICHE TECNICHE

Dimensioni: 161 x 154 x 83 mm

Dimensioni: 161 x 140 x 83 mm

-  Micro relè
-  Mini relè
-  Fusibili Unival
-  Fusibili Minival
-  Liberty link
-  Fusibili di riserva



	QPL - M (Quick Power Link - Medium)	QPL - S (Quick Power Link - Small)
Alimentazione	12V o 24 V	12V o 24 V
Temperatura di funzionamento	- 30°C ÷ +80°C	- 30°C ÷ +80°C
Grado di protezione	IP42 con connettori correttamente collegati	IP42 con connettori correttamente collegati
Terminali di potenza	M6 alimentazione della batteria M5 alimentazione interruttore a chiave	M6 alimentazione della batteria M5 alimentazione interruttore a chiave
Terminazione CAN BUS	120 Ohm resistore a bordo	120 Ohm resistore a bordo
Autoestinguenza	UL 94V-0	UL 94V-0
Conformità CE	ISO 14982; EN 13309	ISO 14982; EN 13309
Conformità radiodisturbo	CISPR 25	CISPR 25
Prestazioni elettriche	ISO 7637	ISO 7637
Prove ambientali	EN 60068-2-1; EN 60068-2-2; EN 60068-2-6; EN 60068-2-27	EN 60068-2-1; EN 60068-2-2; EN 60068-2-6; EN 60068-2-27
Relè	- N° 4 sedi per micro relè (versione 10/20A a 12Vdc - versione 8/15A a 24Vdc) - N° 2 sedi per mini relè (versione 30/40A a 12Vdc - versione 10/20A a 24Vdc version) o unità elettroniche Cobo (max 9 pin collegati) - N° 11 relè PCB (versione 10/15A on 12Vdc)	- N° 8 sedi per micro relè (versione 10/20A a 12Vdc - versione 8/15A a 24Vdc) - N° 2 sedi per mini relè (versione 30/40A a 12Vdc - versione 10/20A a 24Vdc version) o unità elettroniche Cobo (max 9 pin collegati) - N° 4 relè PCB (versione 10/15A on 12Vdc)
Fusibili	- N° 5 fusibili Unival max 30A (Vedi schema elettrico) - N° 20 fusibili Minival max 15A (Vedi schema elettrico)	- N° 5 fusibili Unival max 30A (Vedi schema elettrico) - N° 14 fusibili Minival max 15A (Vedi schema elettrico)
Liberty Link	- N° 1 Modulo di comunicazione CAN BUS	- N° 1 Modulo di comunicazione CAN BUS
Ingresso/uscita alloggiamento connettore	- X10 = 9 posizioni MCP 2.8 Tyco ref. 8-0968971-1 - X11 = 6 posizioni MCP 2.8 Tyco ref. 8-0968970-2 - X12 = 21 posizioni MCP 2.8 Tyco ref. 8-0968975-2 - X13 = 12 posizioni MCP 2.8 Tyco ref. 8-968972-2 - X14 = 18 posizioni MCP 2.8 Tyco ref. 8-0968974-1 - X15 = 8 posizioni Minifi ref. 5557-08R-210 - X16 = 6 posizioni Minifi ref. 5557-06R-210 - X17 = 22 posizioni Minifi ref. 5557-22R-210	- X1 = 21 posizioni MCP 2.8 Tyco ref. 8-0968975-1 - X2 = 12 posizioni MCP 2.8 Tyco ref. 8-0968972-1 - X3 = 15 posizioni MCP 2.8 Tyco ref. 8-0968973-1 - X4 = 6 posizioni MCP 2.8 Tyco ref. 8-0968970-1 - X5 = 6 posizioni Minifi ref. 5557-06R-210 - X6 = 12 posizioni Minifi ref. 5557-12R-210 - X7 = 14 posizioni Minifi ref. 5557-14R-210

TECHNICAL SPECIFICATIONS

Dimensions: 161 x 154 x 83 mm

Dimensions: 161 x 140 x 83 mm

- Micro relays
- Mini relays
- Unival Fuses
- Minival Fuses
- Liberty link
- Reserve fuses



	QPL – M (Quick Power Link - Medium)	QPL – S (Quick Power Link - Small)
Power supply	12V or 24 V	12V or 24 V
Operative temperature	- 30°C ÷ +80°C	- 30°C ÷ +80°C
Sealing degree	IP42 with connectors properly plugged	IP42 with connectors properly plugged
Power terminals	M6 battery power supply M5 key switch power supply	M6 battery power supply M5 key switch power supply
CAN BUS terminating	120 Ohm resistor on board	120 Ohm resistor on board
Self-extinguishing	UL 94V-0	UL 94V-0
CE compliance	ISO 14982; EN 13309	ISO 14982; EN 13309
Radio Disturbance Conformity	CISPR 25	CISPR 25
Electrical performance	ISO 7637	ISO 7637
Enviromental test	EN 60068-2-1; EN 60068-2-2; EN 60068-2-6; EN 60068-2-27	EN 60068-2-1; EN 60068-2-2; EN 60068-2-6; EN 60068-2-27
Relays	- N° 4 locations for micro relays (10/20A on 12Vdc version - 8/15A on 24Vdc version) - N° 2 location for mini relays (30/40A on 12Vdc version - 10/20A on 24Vdc version) or Cobo electronic units (max 9 pins connected) - N° 11 PCB relays (10/15A on 12Vdc version)	- N° 8 locations for micro relays (10/20A on 12Vdc version - 8/15A on 24Vdc version) - N° 2 location for mini relays (30/40A on 12Vdc version - 10/20A on 24Vdc version) or Cobo electronic units (max 9 pins connected) - N° 4 PCB relays (10/15A on 12Vdc version)
Fuses	- N° 5 Unival Fuses max 30A (see wiring diagram) - N° 20 Minival Fuses max 15A (see wiring diagram)	- N° 5 Unival Fuses max 30A (see wiring diagram) - N° 14 Minival Fuses max 15A (see wiring diagram)
Liberty Link	- N° 1 CAN BUS communication module	- N° 1 CAN BUS communication module
Connector Input/Output plugs housing	- X10 = 9 positions MCP 2.8 Tyco ref. 8-0968971-1 - X11 = 6 positions MCP 2.8 Tyco ref. 8-0968970-2 - X12 = 21 positions MCP 2.8 Tyco ref. 8-0968975-2 - X13 = 12 positions MCP 2.8 Tyco ref. 8-968972-2 - X14 = 18 positions MCP 2.8 Tyco ref. 8-0968974-1 - X15 = 8 position Minifit ref. 5557-08R-210 - X16 = 6 position Minifit ref. 5557-06R-210 - X17 = 22 position Minifit ref. 5557-22R-210	- X1 = 21 positions MCP 2.8 Tyco ref. 8-0968975-1 - X2 = 12 positions MCP 2.8 Tyco ref. 8-0968972-1 - X3 = 15 positions MCP 2.8 Tyco ref. 8-0968973-1 - X4 = 6 positions MCP 2.8 Tyco ref. 8-0968970-1 - X5 = 6 positions Minifit ref. 5557-06R-210 - X6 = 12 position Minifit ref. 5557-12R-210 - X7 = 14 position Minifit ref. 5557-14R-210

LIBERTY LINK

MODULE

Comunicazione protocollo:

- Can open
- Or J1939
- Tra QPL (con il modulo Liberty Link) e dispositivi elettronici Cobo

Protocol communication:

- Can open
- Or J1939
- Between QPL (with Liberty Link module) and electronic COBO devices

SPECIFICHE TECNICHE

Technical specifications

- Alimentazione: 8 - 30V batteria veicolo
- Uscite on/off: N° 18 per gestire i relè QPL
- Ingressi digitale: N° 2
- Max frequenza ingresso digitale: 10 kHz
- Temperatura di funzionamento: -40° C ÷ +80° C

- Power supply: 8 - 30V battery vehicle
- On/off outputs: N° 18 to manage the QPL relays
- Digital inputs: N° 2
- Max frequency digital input: 10 KHz
- Operating temperature: -40° C ÷ +80° C

VT3 programs





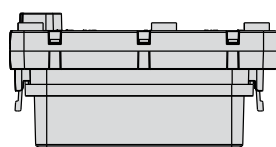
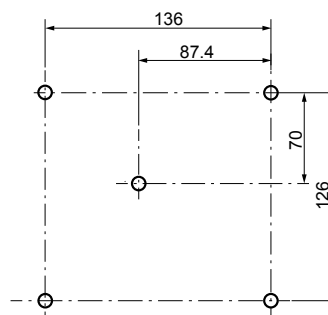
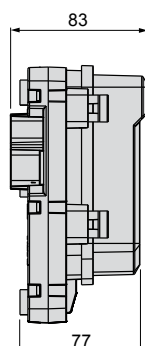
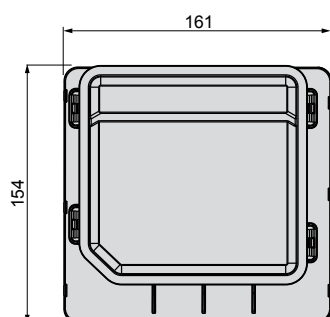
QPL - M (Quick Power Link - Medium)

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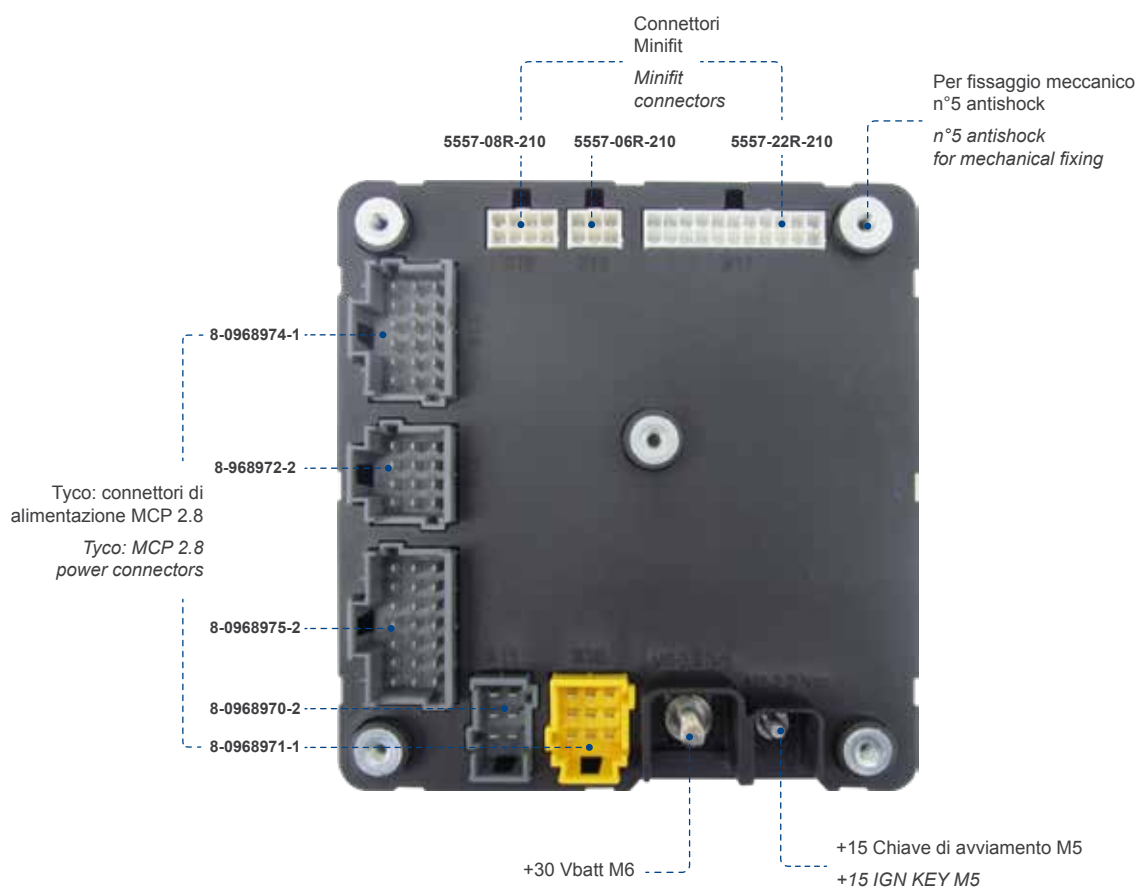
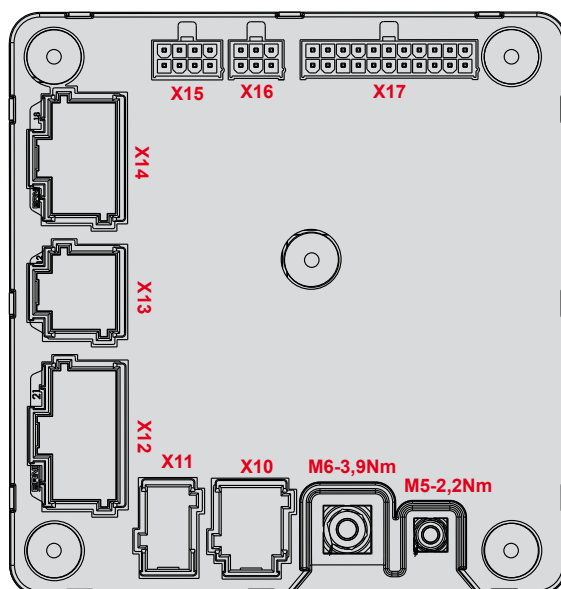
Pkg Q.ty 1

	P/N
Purchase code	1083073
Drawing code	0A057745



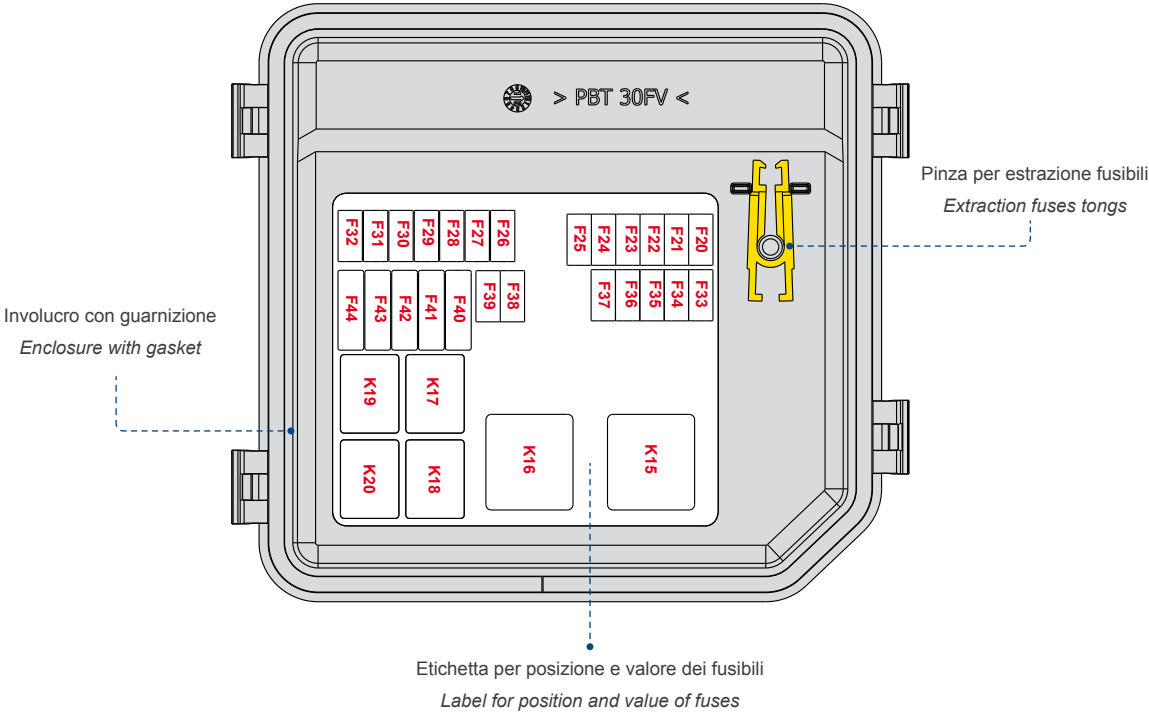
PARTE INFERIORE

Underside



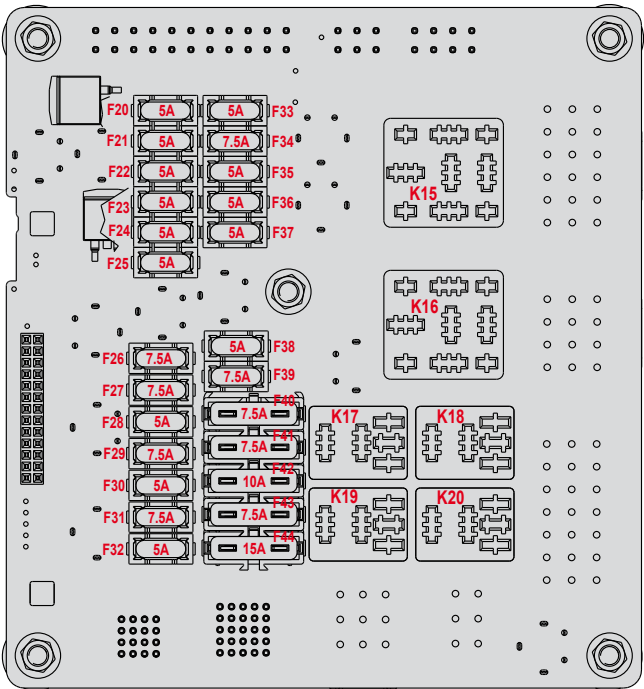
INTERNO COPERCHIO

Inside cover



CONNETTORI PRINCIPALI SUL LATO POSTERIORE DEL PCB

Main connectors on back side of PCB



POS	MAX VALUE 12V/24V	FUSE SIZE	POS	MAX VALUE 12V/24V	FUSE SIZE
F20	5A / 5A	MINI	F33	10A / 5A	MINI
F21	10A / 5A	MINI	F34	7.5A / 7.5A	MINI
F22	10A / 5A	MINI	F35	10A / 5A	MINI
F23	5A / 5A	MINI	F36	10A / 5A	MINI
F24	10A / 5A	MINI	F37	10A / 5A	MINI
F25	10A / 5A	MINI	F38	10A / 5A	MINI
F26	15A / 7.5A	MINI	F39	15A / 7.5A	MINI
F27	7.5A / 7.5A	MINI	F40	15A / 7.5A	ATO
F28	10A / 5A	MINI	F41	15A / 7.5A	ATO
F29	15A / 7.5A	MINI	F42	20A / 10A	ATO
F30	10A / 5A	MINI	F43	15A / 7.5A	ATO
F31	15A / 7.5A	MINI	F44	25A / 15A	ATO
F32	10A / 5A	MINI	-	-	-

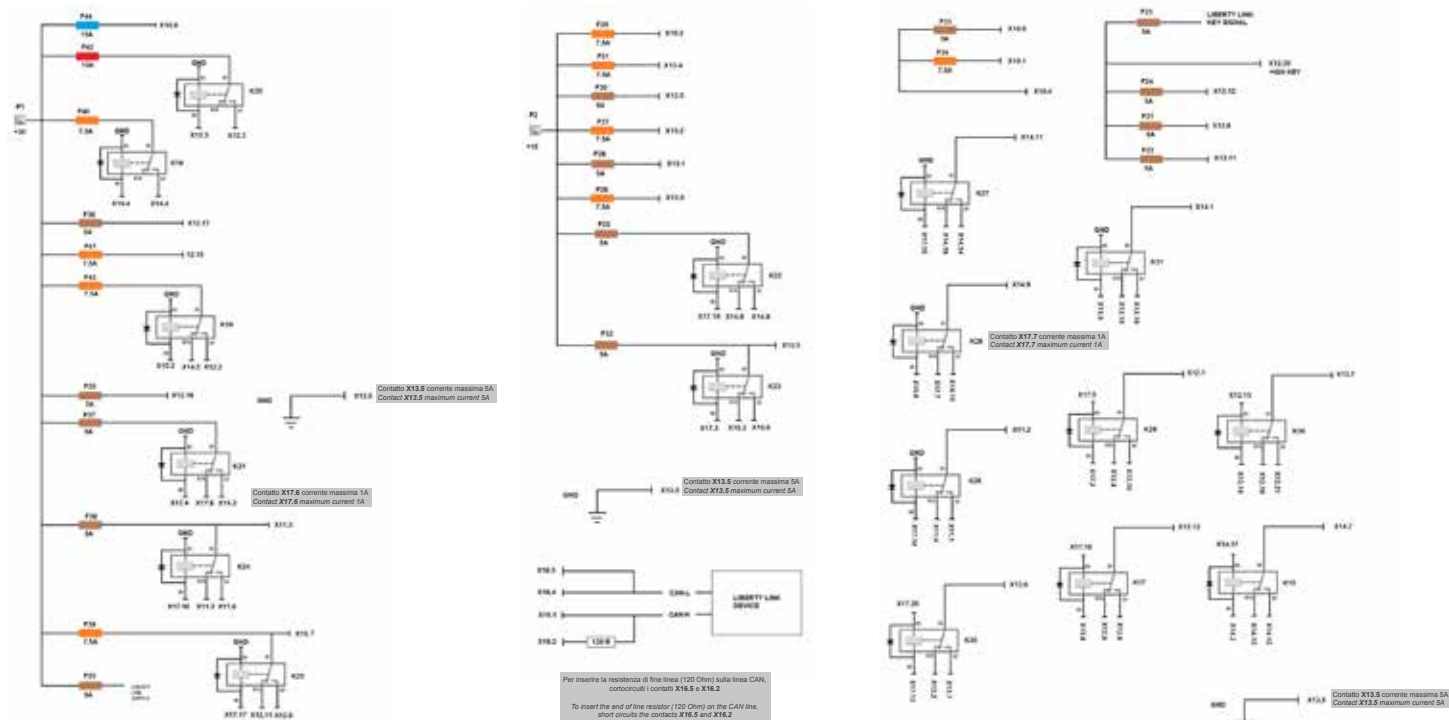
Connettori principali sul lato posteriore del PCB 24V
Main connectors on Back side of PCB 24V



Rispettare il valore massimo
che i fusibili indicano sullo schema
Respect the maximum value of the
fuses indicates on the scheme

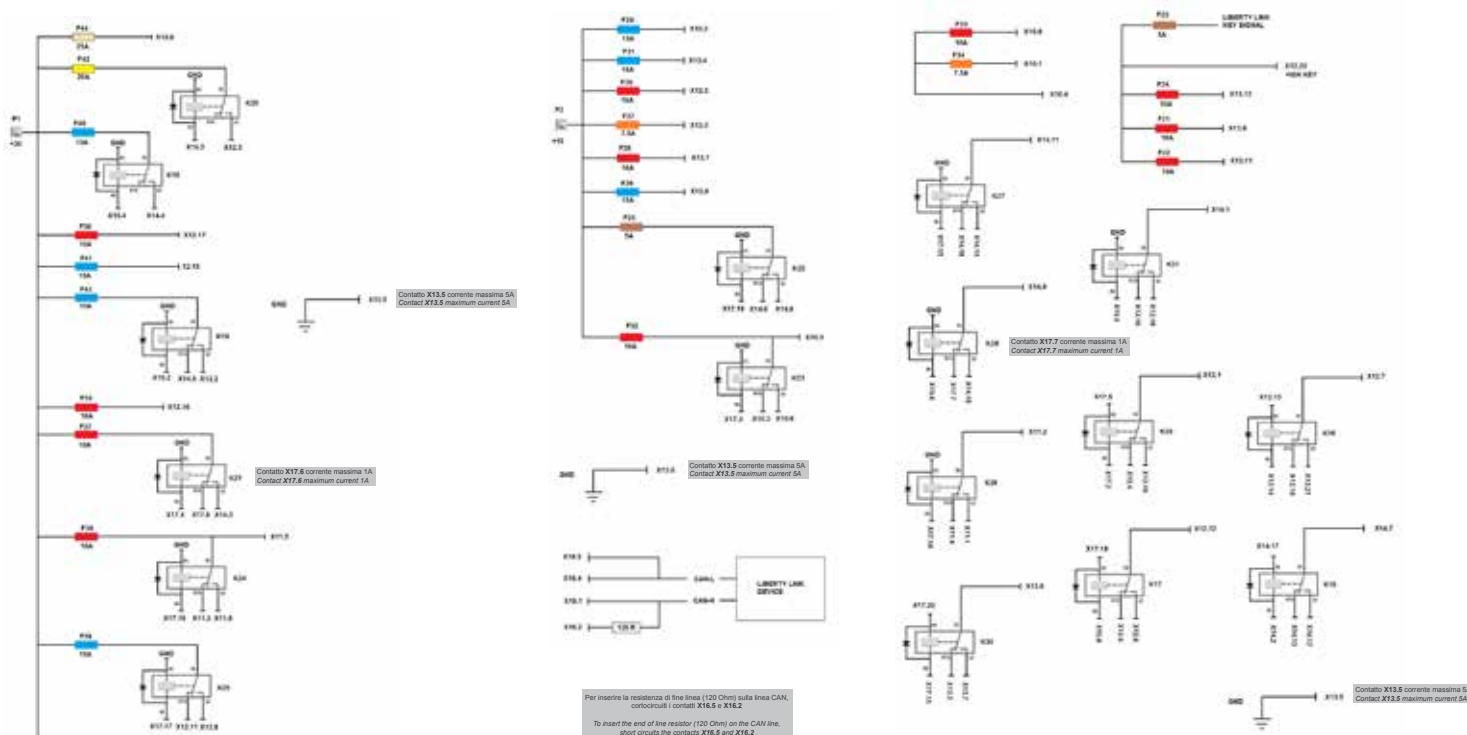
ALIMENTAZIONE BATTERIA 24V

24V BATTERY SUPPLY



ALIMENTAZIONE BATTERIA 12V

12V BATTERY SUPPLY



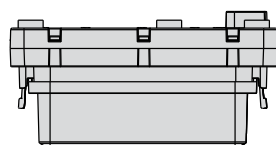
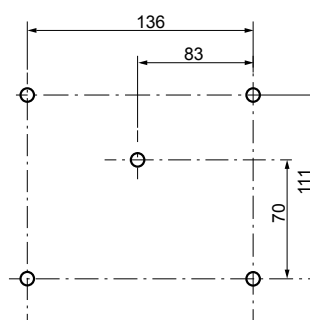
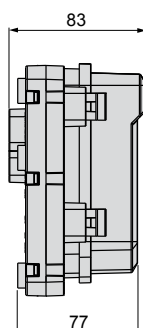
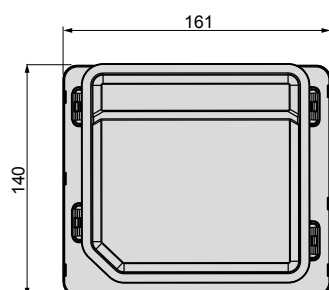
QPL – S (Quick Power Link - Small)

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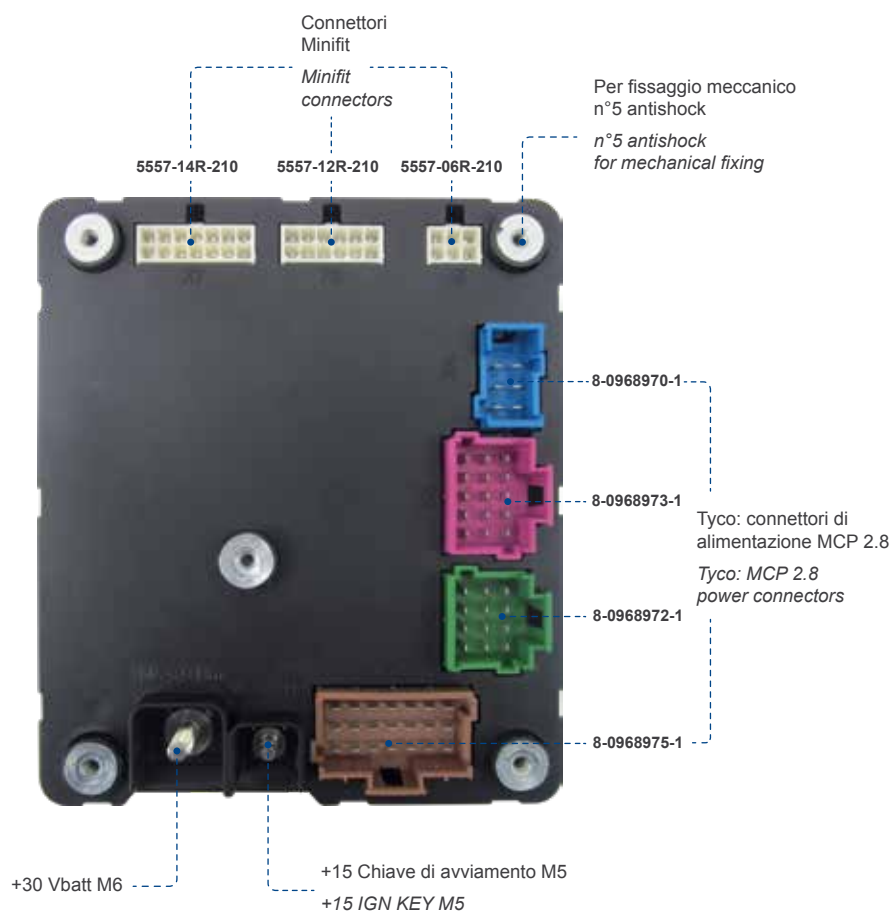
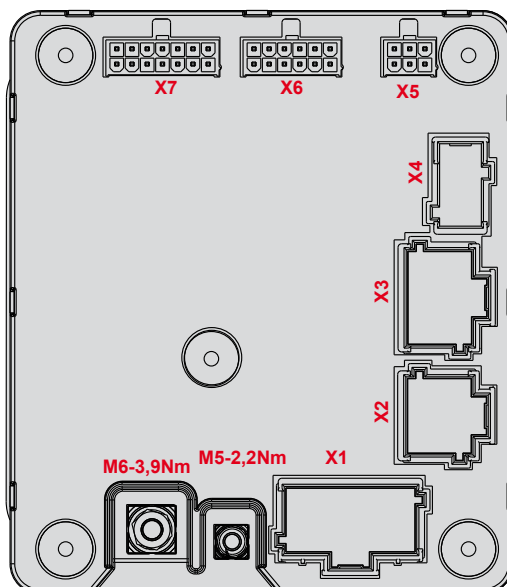
Pkg Q.ty 1

	P/N
Purchase code	1083070
Drawing code	0A057742



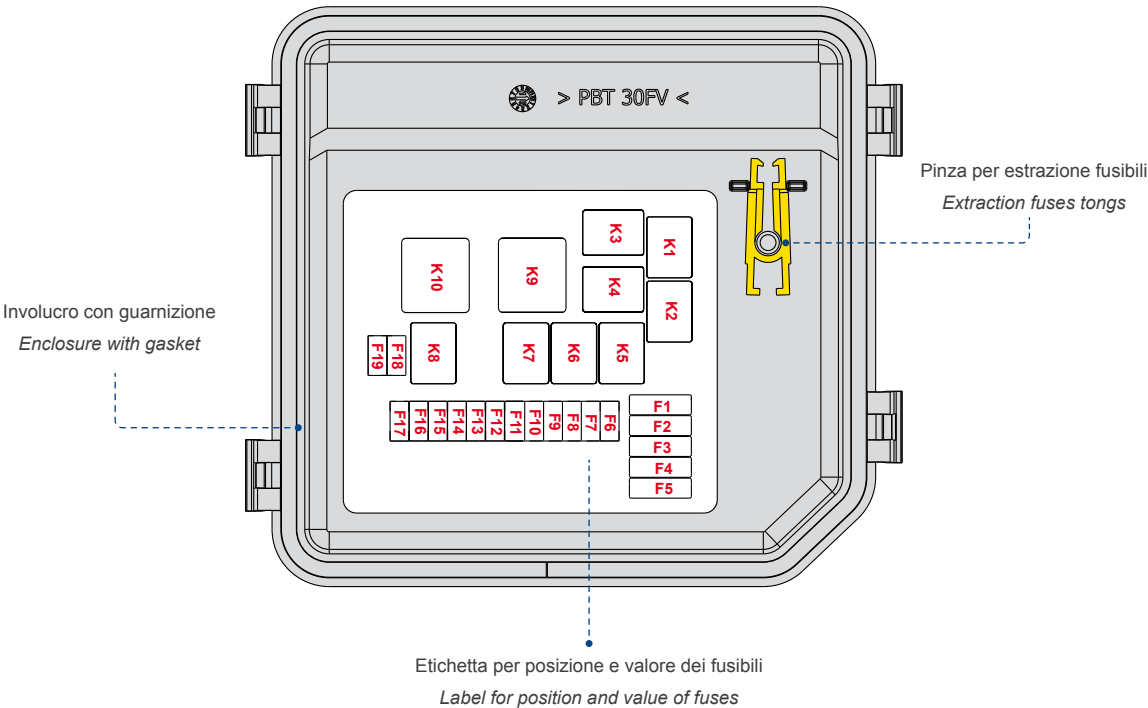
PARTE INFERIORE

Underside



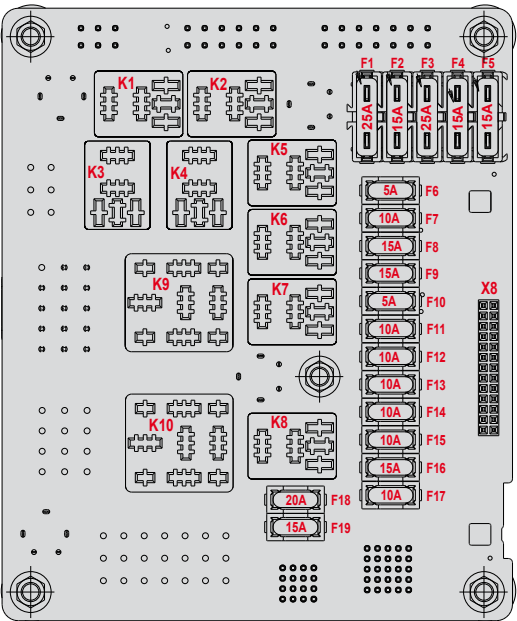
INTERNO COPERCHIO

Inside cover



CONNETTORI PRINCIPALI SUL LATO POSTERIORE DEL PCB

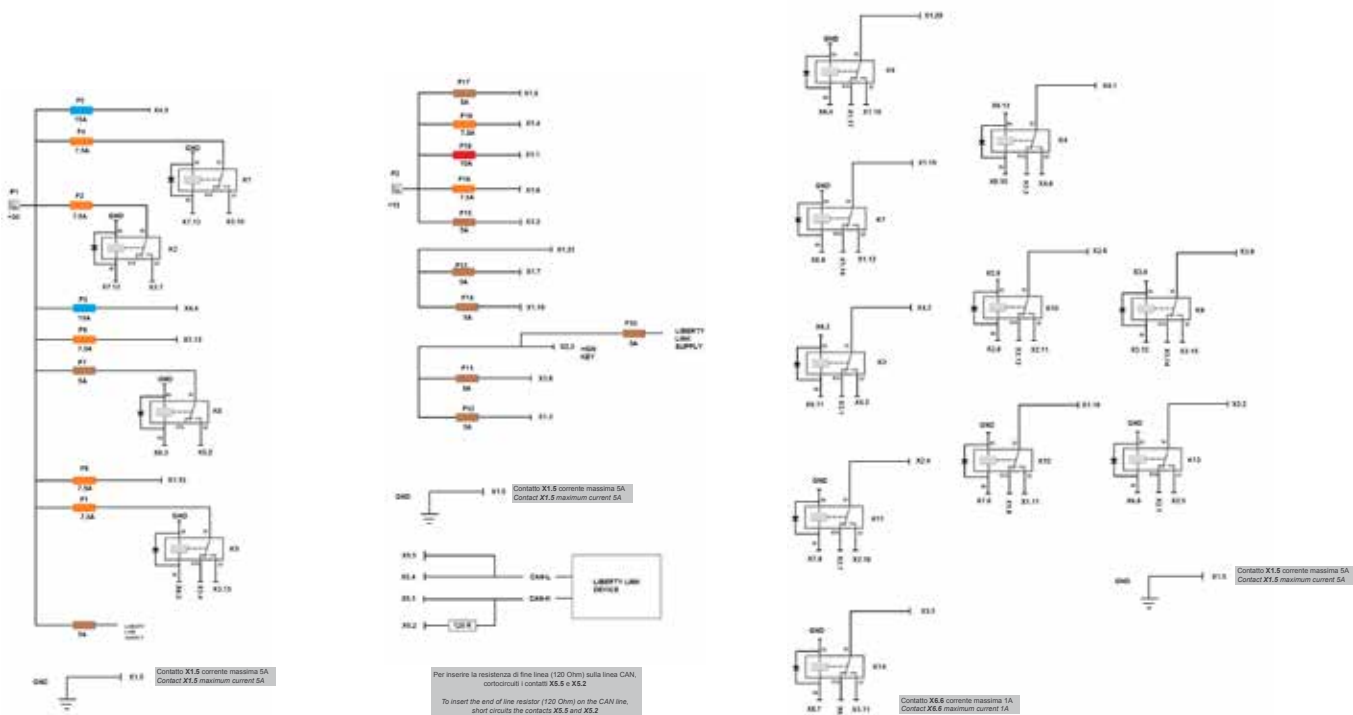
Main connectors on back side of PCB



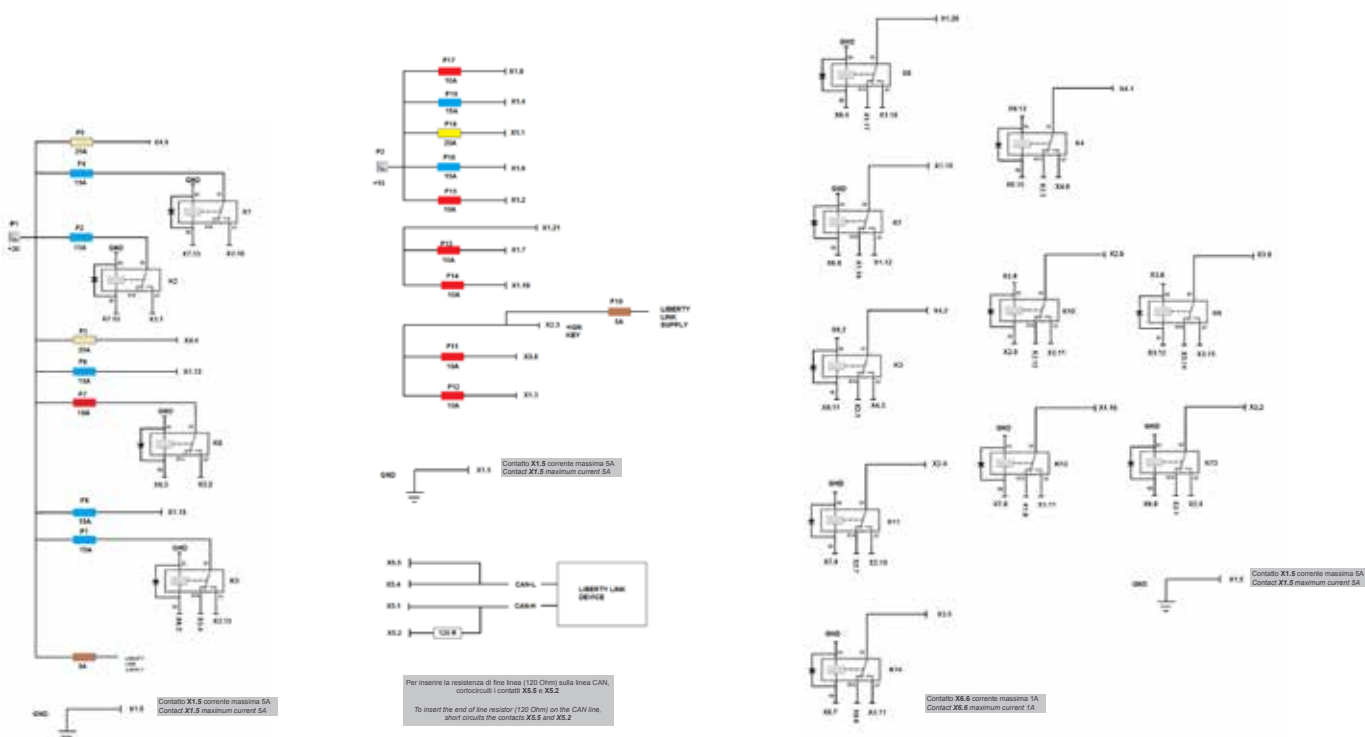
POS	MAX VALUE 12V/24V	FUSE SIZE	POS	MAX VALUE 12V/24V	FUSE SIZE
F1	15A / 7.5A	ATO	F14	10A / 5A	MINI
F2	15A / 7.5A	ATO	F15	10A / 5A	MINI
F3	25A / 15A	ATO	F16	15A / 7.5A	MINI
F4	15A / 7.5A	ATO	F17	10A / 5A	MINI
F5	25A / 15A	ATO	F18	20A / 10A	MINI
F6	5A / 5A	MINI	F19	15A / 7.5A	MINI
F7	10A / 5A	MINI			
F8	15A / 7.5A	MINI			
F9	15A / 7.5A	MINI			
F10	5A / 5A	MINI			
F11	10A / 5A	MINI			
F12	10A / 5A	MINI			
F13	10A / 5A	MINI			

Rispettare il valore massimo
che i fusibili indicano sullo schema
*Respect the maximum value of the
fuses indicates on the scheme*

24V BATTERY SUPPLY



12V BATTERY SUPPLY



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