

Bodybuilder's Bulletin (New Truck Generation)

11 January 2021

Bulletin No. 140

Additional Electrical consumers

In principal MAN is happy for extra electrical consumer to be added to the vehicles, With the launch of the MAN New Truck Generation (New TG), the connections for bodybuilders have changed from the previous generation.

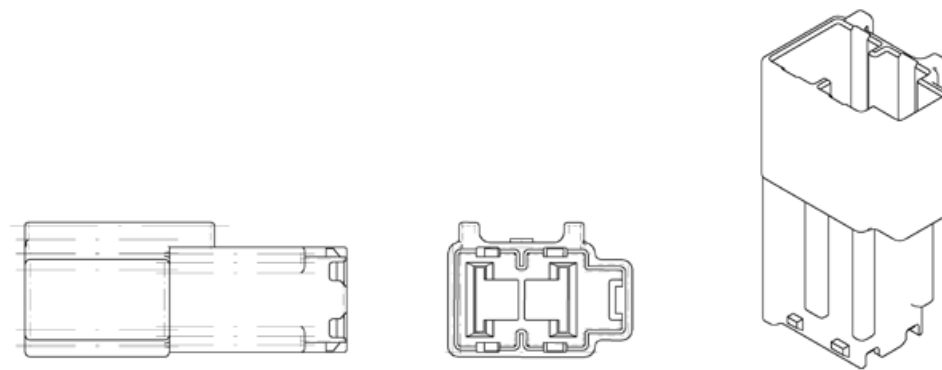
This bulletin document what connection point can be used & how much current draw the connection are allowed.

More information can be found about Additional Electrical consumers on page 220 of the MAN Guideline to fitting bodies MAN TG (included new TG) Guideline to fitting bodies

For the new TGL/new TGM by selecting the special equipment 0P1DD – Interface for power supply to body, behind front panel, an additional 50-ampere power tap can be obtained (picture 1) .

If the interface is present, it can be found on the left under the front panel; it is possible to connect a maximum load of 50 amp to the interface. The associated 50-A fuse is located in the fuse box at the battery box.

Picture 1



2-pin connector: X4556	MAN Part No
Matting connector (body)	81.25475-0464
Contact for socket/blade terminal	07.91202-4410

Terminal 15 Power supply cab connection

As a general principle, fit a relay that is controlled via terminal 15. The load must be connected to terminal 30 via a fuse.

For information on further implementation, see terminal 30 power supply.

At a maximum load of up to 10 amperes, connect to an additional fuse holder via a fuse (Picture 2, Central electric system).

Additional fuse holders are to be used for preference. If all existing fuse holders are already connected, an existing fuse holder can be used. Note that a maximum continuous load of 60A (85A rated current of fuses) per fuse holder must not be exceeded. Connecting additional fuses to fuse holders with the coding A (X6), B (X7) and F (X11) is not permitted

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Terminal 30 Power supply cab connection

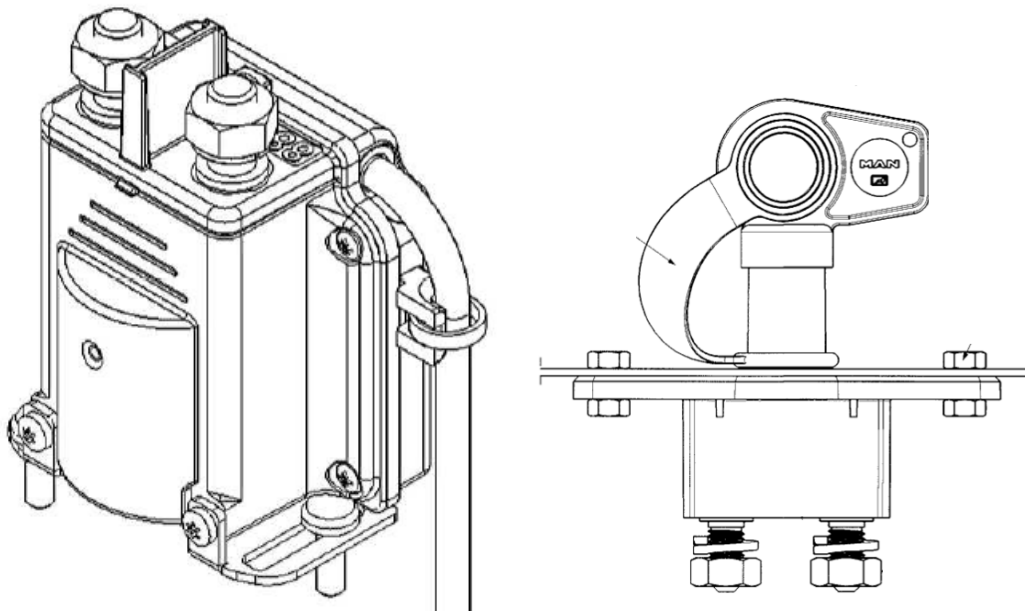
In the case of a maximum load of up to 10 amperes, connect via a fuse on an additional fuse holder (Picture 2, Central electric system).

Additional fuse holders are to be used for preference. If all existing fuse holders are already connected, an existing fuse holder can be used. Note that a maximum continuous load of 60A (85A rated current of fuses) per fuse holder must not be exceeded. Connecting additional fuses to fuse holders with the coding A (X6),B (X7) and F (X11) is not permitted.

In the case of a load >10 Ampere connect via a fuse directly to the battery averted connector of the main battery switch in the battery box (Picture 1, connector main battery switch) or on the fuse box (see Picture 4 fuse box on the TGL/TGM battery box Or Picture 5 fuse box on the TGS/TGX battery box).

Connector main battery switch: tightening torque (Ma) 20 Nm + / - 2 Nm must be maintained. Directly tap-off the voltage on the battery plus pole is not permitted.

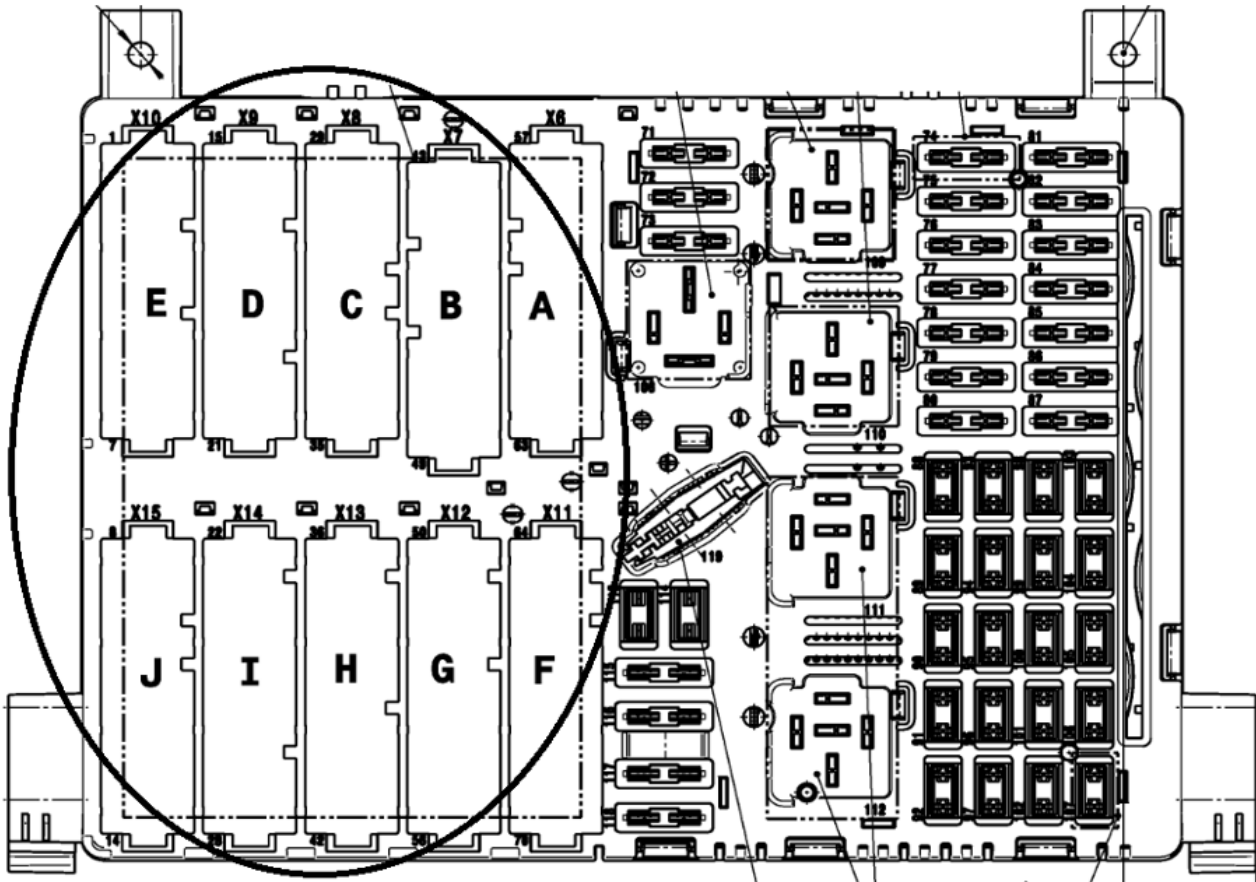
Picture 1A Connector main battery switch



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Picture 2, Central electric system



- Fuse holder item number: Coding C 81.25441-6224 (Terminal 15)
- Coding D 81.25441-6225 (Terminal 15)
- Coding E 81.25441-6226 (Terminal 15)
- Coding G 81.25441-6228 (Terminal 30)
- Coding H 81.25441-6229 (Terminal 30)
- Coding I 81.25441-6230 (Terminal 30)
- Coding J 81.25441-6231 (Terminal 30)
- Blade contacts: 07.91201-2214 (1.0 – 2.5)
- Ground point X6395 / X6396 behind the control units next to the central electrical

Terminal 31 Earth connection cab

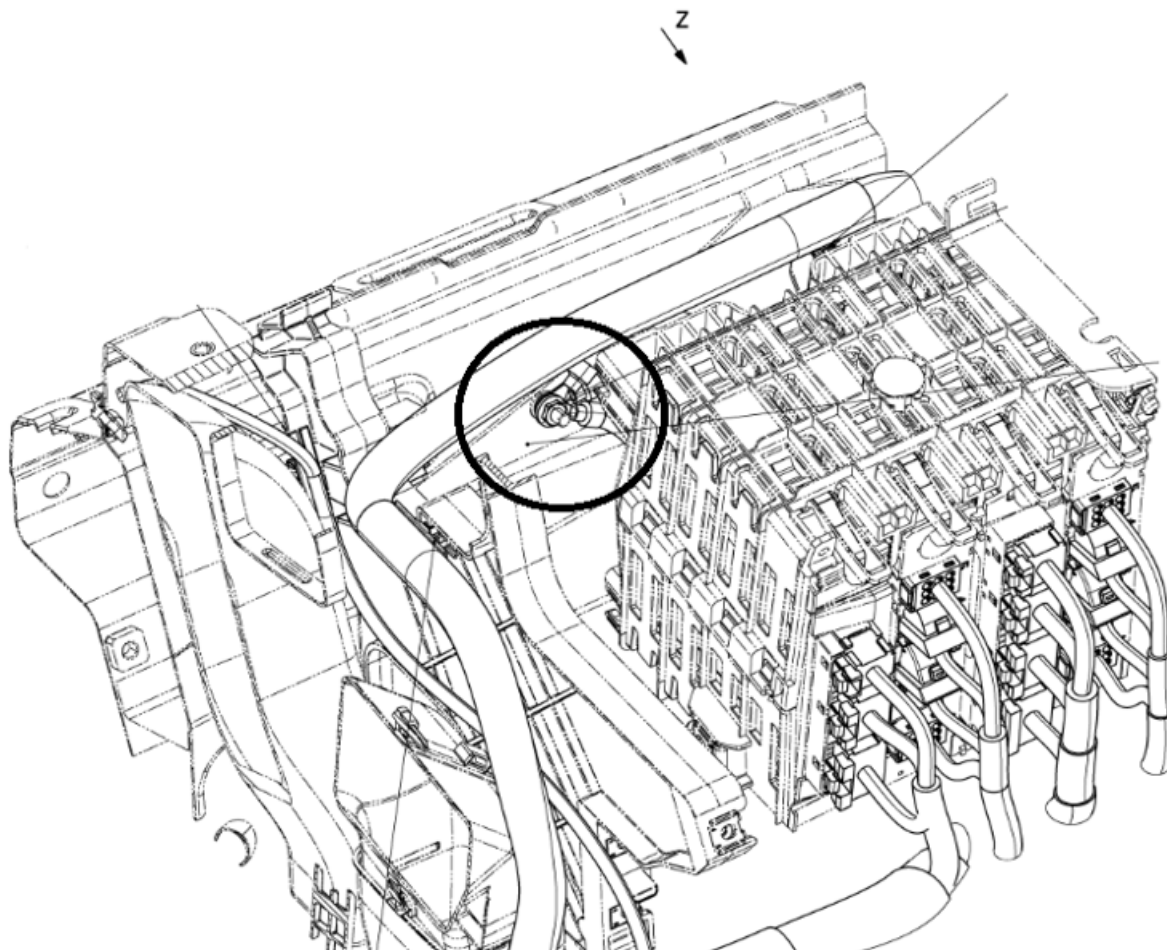
Do not connect to the batteries, but rather to the ground points within (Picture 3 Earth point X6395) and outside (ground point X100 right rear engine mount) of the cab.
Ground point behind the central electrical system: tightening torque (Ma) of 7 Nm + / - 1 Nm must be maintained.

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Ground point of the engine mount: tightening torque (Ma) of 9 Nm + / - 0.9 Nm must be maintained.
The negative cable of the body manufacturer may be connected to the negative terminal of the batteries if the battery terminal has sufficient space to connect the ground cable

Picture 3 Ground point X6395 / X6396 behind the control units next to the central electrical



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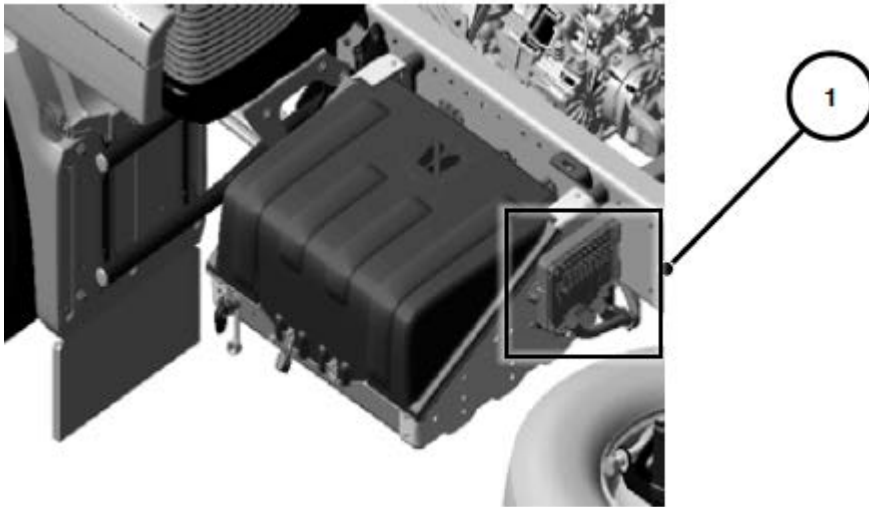
Electrical Connections on the chassis frame

Fuse box

In the case of TGL/TGM, there is a fuse box that is always mounted to an additional bracket behind the battery box (Picture 4 fuse box on the TGL/TGM battery box)

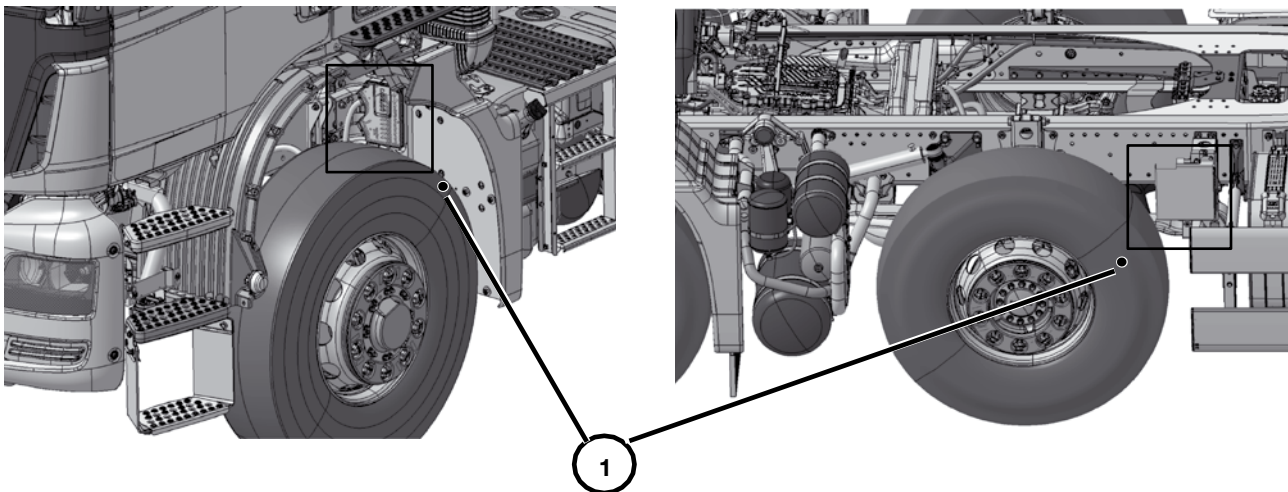
In the case of TGS/TGX vehicles the fuse box is mounted either to an additional bracket on the front mudguard or to an additional bracket on the frame near the rear front spring-loaded bearing (Picture 5 fuse box on the TGS/TGX battery box)

Picture 4 fuse box on the TGL/TGM battery box



1) Fuse box

Picture 5 fuse box on the TGS/TGX battery box



1) Fuse box

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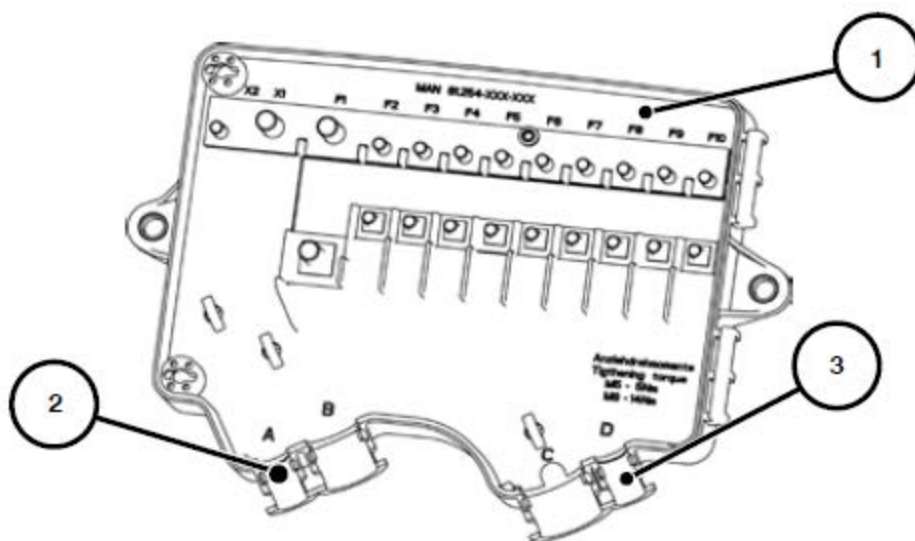
Depending on the vehicle equipment the fuse box contains the following fuses:

- Main fuse
- Engine/interaction of engine components
- Gearbox
- Fuel filter
- Flame-start system
- Body interface

The (Picture 6 Fuse Box) shows the body interface in the fuse box. The body interface must only be used if it is not yet occupied

Maximum tap of 50A at connection F8 must not be exceeded here. The line inputs A and D must be used.

Picture 6 Fuse Box



- 1) Connection F8 – body interface (maximum 50A)/tightening torque (Ma) M5 - 5 Nm/M8 14 Nm
- 2) Line input A (NW 10)
- 3) Line input D (NW 10)

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Changes power supply terminal 31

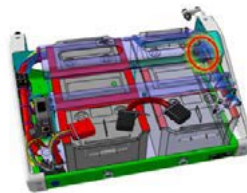
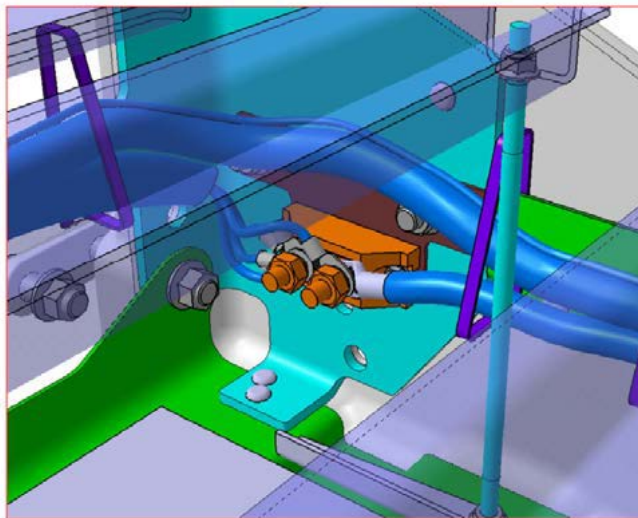
Do not connect on the battery, but on the ground points within the ground point X6395/X6396 beside the central electrics and outside the ground point X100 (rear right engine mounting) the cab.

The ground cable from body builder can be connected on the terminal strip inside the battery box up to 50 A load (Picture 7 & 8).

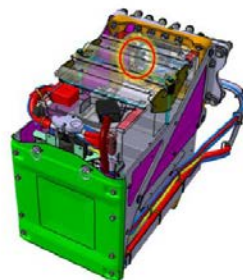
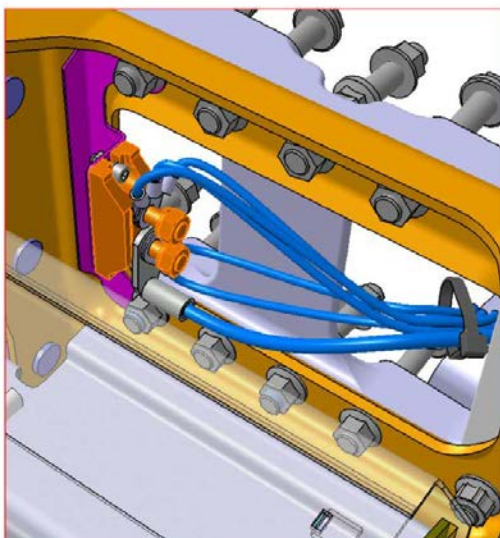
The ground point on the engine mounting. It should be ensured that the cables are laid proper and tidily.

Ground point battery box: tightening torque (Ma) 35 Nm + / - 3,5 Nm must be maintained. Directly earth tapping on the battery negative terminal is not allowed.

Picture 7 Ground connection terminal strip inside the big battery box



Picture 8 Ground connection terminal strip inside the compact battery box



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