



<https://truckbodybuilder.scania.com>

September 13, 2024

Below you will find the latest information that is important to know when bodybuilding on a Scania vehicle.

For Scania contact in bodybuilding issues, see:

<https://bodybuilder.scania.com/trucks/en/help/market-contacts.html>

## FUSE ADAPTERS FOR SCANIA EL PTO

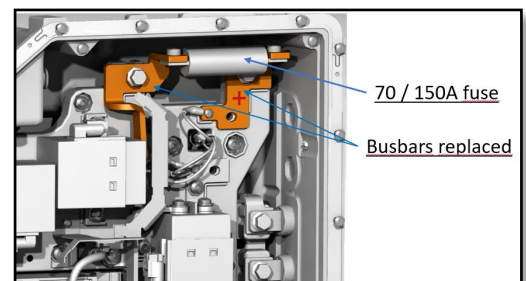
The Scania EL PTO on Battery Electric Vehicles with two frame bends (FPC8967B) is today supplied with a 450A rated fuse. The bodybuilder needs to install a 70A fuse (Scania part number 3206639) for the 30kW EL PTO (FPC8933B) or a 150A fuse (Scania part number 3206648) for the 60kW EL PTO (FPC8933A).

To fit the lower-rated fuse, the fuse holder (busbars) in the EL PTO must be replaced. **This replacement must be performed by a Scania workshop.** The relevant Scania busbar part numbers are 3205816 and 3205691. For more details, contact your local dealer.

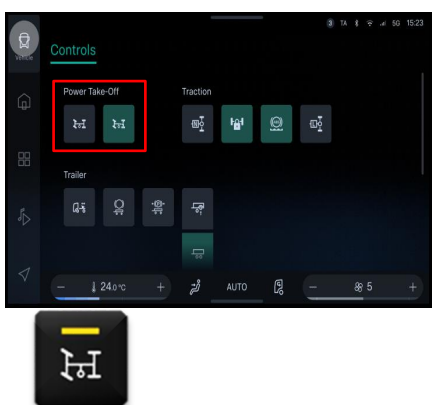
Please note that, if the fuse is not changed to match the power rating of the bodywork equipment, there is a risk of equipment damage or even a fire hazard in the event of an overload or short circuit.

**The EL PTO with the correct fuse rating will be supplied on chassis produced starting in October 2024**

Link To The Bodybuilder Manual: [Electrical systems /Function descriptions with connection instructions /Power take-off / Working with EL power take-off](#)



## PHYSICAL OR DIGITAL PTO BUTTON IN THE SMART DASH



In Scania chassis with the Interactive Centre Information Display (CID), the PTO button is available as a digital button. It is now possible to choose either a physical or digital PTO button on the instrument panel with aftersales conversions according below variant codes.

- PTO Type EK: FPC10729A -> Digital Button , FPC10729C -> Physical Button
- PTO Type EG: FPC10730A -> Digital Button , FPC10730C -> Physical Button
- PTO type ED: FPC10731A -> Digital Button , FPC10731C -> Physical Button
- PTO type ET: FPC10732A -> Digital Button , FPC10732C -> Physical Button
- Split shaft PTO: FPC10733A -> Digital Button , FPC10733C -> Physical Button

**It is important to note that digital and physical PTO buttons cannot be combined within the same chassis. If a customer selects a physical PTO button, all other PTO buttons must be of the same type.**

Please note that the variant codes mentioned above will be replaced by new variant codes, FPC11465A for Digital Buttons and FPC11465C for Physical Buttons for all PTO types, effective from February 2025.



## DIRECT WIRE ACTIVATION OF BODYBUILDER INDICATOR LAMP VIA C234

In vehicles with Electrical System Generation 7 (FPC9742B), it is possible to activate bodybuilder indicator lamps in 2 positions of the Driver Display. The activation is done with either a +24 V or grounding input signal to connector C234 pin 6 or 8. This functionality does not require the vehicle to be specified with Bodywork Communication Interface (FPC5837A). Only requirement is that indicator lamp symbols are specified for the intended indicator lamp positions.

The indicator lamp symbols for the 8 available bodybuilder indicator lamp positions are set within the order variants Bodywork Symbol in Driver's Display Position 1-8 (FPC 10222-10229).

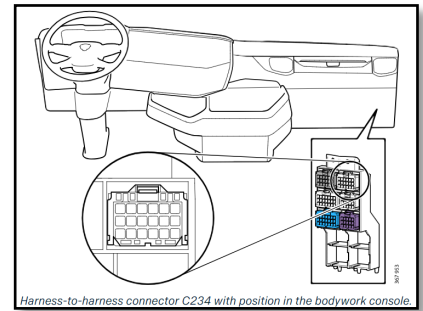
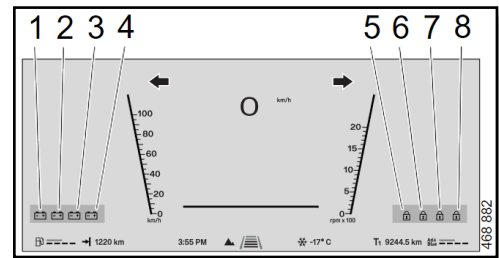
The direct wire inputs via connector C234 have been disabled in the first software versions for Driver Interaction Management System (DIM). This will change with the latest available software update for the DIM system.

The following information is good to take in consideration during the bodybuilding process for time being:

- Open load or a +24V input signal will be regarded as active, grounding signal as non-active request for indicator lamp activation
- Function parameter for setting between active high or active low input state will not function

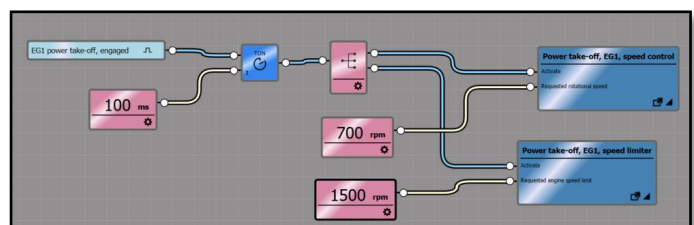
Please note also that the parameter settings in Scania Workshop Suite (SWS) for C234 pins 6 and 8 are mixed up. This means that the parameter settings for C234 pin 6 will actually affect pin 8, and vice versa. The work to resolve this issue is currently ongoing, but in the meantime, it is important to take this into account when configuring the function parameters for C234.

**Link To The Bodybuilder Manual:** [Electrical systems / Function descriptions with connection instructions / Driver's information / Indications in Scania's digital driver environment \(DIM\)](#)



## ENGINE SPEED CONTROL WITH GEARBOX PTO EG15R DCP1

We are currently experiencing an issue with the gearbox PTO EG15R DCP1 in BEV and PHEV vehicles. The problem occurs when the PTO speed control request is not activated by the Bodywork Communication Interface (BCI), even though the EG PTO engagement is reported.



A permanent solution is under investigation at the factory. In the meantime, a temporary solution can be applied by adding a delay in the programming logic to ensure the PTO speed control request is triggered after the EG PTO is engaged.

**Link To The Bodybuilder Manual:** [Electrical systems / Function descriptions with connection instructions / Power take-off / EG power take-off activation on vehicles with electric powertrain](#)



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## CHANGES IN EXTERNAL CAN COMMUNICATION INTERFACES

Scania provides two external CAN interfaces for customers:

- FMS CAN interface (variant code 4019A)
- External CAN interface for bodybuilders (included in variant code 5837A, Bodywork Communication Interface)

Recent updates to the electrical system have introduced changes to both of the above CAN interfaces. A more detailed description of these changes is provided below:

### FMS CAN interface

Available FMS CAN interface messages are aligned with FMS-standard version 4 starting from the introduction of *Coordinator system 10* (FPC3113E), production period July 2023. This change also applies to all vehicles with later introduced *Electrical System Generation 7* (FPC9742B).

The consequence of this change is that only FMS truck standard messages will be available for trucks in Scania's *FMS CAN interface* (FPC4019A). Examples of excluded messages are *Electronic Transmission Controller 2* (ETC2, PGN 0xF005) and *Vehicle Dynamic Stability Control 2* (VDC2, PGN 0xF009).

### External CAN interface for bodybuilders

CAN message *CruiseControlVehSpeed* source address has been changed in vehicles with *Electrical System Generation 7* (FPC9742B). This might affect bodybuilders working with e.g. the *ParkingBrakeSwitch* signal included in the message.

In previous Electrical System Generation 6 (FPC9742A), *CruiseControlVehSpeed* message has been sent out with source address 0x00, hence the message identifier 0x18FEF100. In the Electrical System Generation 7 the message is sent out with 0x27, hence the identifier to be used shall be 0x18FEF127.

As a new feature in the truck bodybuilder portal, a CAN database file (.dbc) will be provided for the external CAN for bodybuilders starting from the beginning of October 2024. Together with currently available *External CAN Communication Specification* pdf-document this should support the bodybuilders while working with Scania's bodybuilder CAN interface.

**Link To The Bodybuilder Manual:** [Electrical systems / CAN interface](#)

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## NEW IN BODYBUILDER INDICATOR LAMPS FOR SMART DASH

Scania introduces new symbols for bodybuilder indicator lamps in the digital driver environment. For vehicles equipped with BCI functionality (FPC5837A), there are up to 8 indicator lamps available, each of which can indicate different bodywork functions.

Please note that FPC3888A is the base requirement for activating any form of bodybuilder information in the digital driver interface. Each light indicator can be ordered with an individual variant code (FPC 10222–10229). The bodybuilder indicator lamps can be activated via direct wire connection to connector C234, BICT logic or External CAN for bodybuilders.

**Symbols can be chosen by a specific execution in the variant code or modifying the function parameter in SWS.**

For further details, please refer to the previously published bodybuilder newsletter and the relevant bodybuilder manual.

**Newsletter November 2023:** [https://bodybuilder.scania.com/content/dam/bodybuilder/tbb-files/newsletter/BBC\\_Newsletter\\_November\\_2023.pdf](https://bodybuilder.scania.com/content/dam/bodybuilder/tbb-files/newsletter/BBC_Newsletter_November_2023.pdf)

**Link To The Bodybuilder Manual:** [Electrical systems / Function descriptions with connection instructions / Driver's information / Indications in Scania's digital driver environment \(DIM\)](#)



DL		Symbol, tag axle lift
DM		symbol, fan
DN		symbol, tipper body vibrator
DP		symbol, bodywork cover open
DQ	B 100	symbol, bad concentration of biodiesel
DR		Symbol, bad concentration of biodiesel, second warning
DS		symbol, EG top power take-off
DT		symbol, hatch open
DV		symbol, to wing equipment
DW		symbol, power take-off
DX		symbol, trailer axle lift 3
DY		symbol, trailer axle lift 1
DZ		symbol, alarm signal sound/light
EA		symbol, flashing light
EB		symbol, rear flashing light
EC		symbol, load tipping left
ED		symbol, load tipping right
EE		symbol, discharge of water
EF		symbol, front infrared lighting
EG		symbol, rear infrared lighting
EH		symbol, radio silence
EJ		symbol, low spotlight

EK		symbol, auxiliary heater
EL		symbol, immobiliser failure
EM		symbol, bodywork unlocked
EN		symbol, trailer bodywork unlocked
EP		symbol, refuse collection foot step
EQ		symbol, bodywork raised
ER		symbol, dismountable load carrier unlocked
ES		symbol, box body unlocked
ET		symbol, mixer unit
EU		symbol, trailer cargo area heating
EV		symbol, trailer cargo area refrigeration
EW		symbol, crane cab heating
EX		symbol, crane cab fan
EY		symbol, flexible load transfer
EZ		symbol, cargo area lighting
FA		symbol, battery master switch
FB		symbol, dual battery system master switch
FC		symbol, lighting surrounding cab
FD		symbol, air conditioning
FF		symbol, general on/off
FG		symbol, power take-off aborted

FH		symbol, hooklift arm up
FJ		symbol, winch out
FK		symbol, winch in
FL		symbol, winch freewheeling
FM		symbol, sound reduction
FN		symbol, speed limiter 2
FP		symbol, automatic refrigeration mode
FQ		symbol, tail lift active
FR		symbol, roof sign lamp
FS		symbol, engine working lamp
FT	35 L	symbol, hydraulic flow low, 35 l
FU	70 L	symbol, hydraulic flow low, 70 l
FV	MAN	symbol, manual gear change mode
FW	RADIO	symbol, radio
FX		symbol, camera
FY		symbol, vehicle level
FZ		symbol, maximum trailer angle warning
GB		symbol, ED power take-off
GC		symbol, EM power take-off
GD		symbol, radio permitted

GE		symbol, trailer external lighting
GF		symbol, hooklift arm down
GG		symbol, speed limiter 3