

Preparation

- Test leader, at office

Order & PVT Check Test code

PVT order: An order for a PVT Check is sent to the [PVT group mail](#) by PMCV or Build leader at KAA.

At present: Email [Johan Hallberg](#) and request an excel document of the specific test code.

Soon: Export an excel file of the PVT Check test code from *PVT Manager*, by selecting:
- PVT Test Sequences
→ Default Sequences,
and select the relevant.

Cover Page

Fill out the cover page.
May look like this:



Cover Page

Information about the truck is available from PROTUS, under "edit variant specification".
Tip: Use the search function to find info e.g. BHP or retarder.

Printout

Make sure the headings will be printed on every page:
[How To - Print TC with Headings](#)

"section in driver mother tongue", select "selection" in the printing window and print.
Put the print-out into a plastic folder.

Note the truck ID and date on the first page.

Logging System

Report the logging system in E-FACTS Collector. Open the program by "right mouse click" on the collector icon in the activity field.
Select "Edit M log installation info". Check Vehicle ID if the correct logger is already installed. If not – find the truck id in the drop down menu under "add new configuration" and fill in the remaining information and change the "M-Log System Id" – press "insert".
M-Logg ID: logging equipment ID no, 8000xxxx
Chassis ID: e.g. A-xxxxxx
Vehicle ID:
Tag: GOT
Info available in Protus - "Mini Variant"
Test Leader: your name
SW Release: the current

If truck does not exist in the list press "request new items" and send the details to support.efacts@volvo.com

Test Logfile

Make a test log file with engine running. Insert USB into logger and load the system – finished when a steady red light appears. Insert the USB in the computer and open the folder "CVEL_USBAuto and the file "CVEL_USBAutpRun.exe". Choose COPY CVEL DATA: the data will now be transferred. Do **not** click "yes" until the transfer is completed. Click "exit" when the button is activated.
Open E-FACTS Data refiner, "Load meas", sort by "vehicle id" – find your truck and drag-and-drop to "drag a column header..." Sort by date and choose todays dates mea package and click "load". Check that all "Data present on bus" are active. (Externals/LIN, Backbone1, Backbone2, Chassis, Display, Powertrain/eng(e6), Safety1, Safety2, Cab, Security, Infotainment).
If not check if M-Log is correctly installed.

Preparation*- Driver, in truck*

Driver Preparation

Bring printed test code, tag, USB and GPS to truck.
 If no logger installed - connect the logging equipment by connecting all CAN connections (MCAN should not be connected, sometimes less than 12 connections depending on truck spec) to resp. connection in the truck (marked with the same name).
 Special connection for EU6: Safety 1 – Powertrain CAN EU6.
 Connect the power cables: yellow to green, red to red, black to black, and blue to black.
 Start the engine, the control light will light red, then blue (=logger ok). Make a test log file: (if test leader has not yet done this) push the trigger button, the control light lit yellow for 15sec (time for logging), then continuously blue. Mount the tag vertically on the truck with plastic strapping as low as possible.

PVT Check Test*- Driver, in truck*

Start up & Logging

Start PVT check by logging all the pop-ups that appears in all vehicle modes.
 Continue the check by following the test case protocol. All errors should be logged, also those that not included in the protocol (OFD = other faults found during driving)

A PVT Check is expected to cover around 6 hours of driving.

Log file transfer

- At the end of the check the logging files should be transferred on a USB by:

- Turning off the engine and ignition and wait until the control light on the logger stops flashing and switch on the ignition again.

Connect the USB directly to the logging equipment or to an extension cable. The light on the logger is flashing red and blue for about 10-30min (depending on the amount of files).

- The data transfer is ready when the light is red a longer time

- Disconnect the USB

Finalize

After the test:

Disconnect and dismount the logging Equipment (if the truck is not about to run another PVT test) and send an email to: supportTTsupportGOT@volvo.com

that you've done so.

Dismount the tag.

After the Test*- Test Leader, at office*

Data Transfer

Data transfer (logged files) from USB into PC:

- Connect USB into PC
- "Start", "Explore", choose "Corsair E:"
- Open the CVEL_USBAuto folder (EFACTS Collector starts automatically)
- Choose CVEL_USBAutoRun
- Choose COPY CVEL DATA: the data will now be transferred.
- Push "exit" when the button is activated

NOTE: Do not click "Yes" before the transfer is done.


Data Control

Start the program EFACTS Data Refiner and click on the icon "Load meas". Sort by "Vehicle_ID" and drag-and-drop the column "vehicle ID" to the area "Drag a column header..."

- Choose the vehicle ID and sort by "start date".

Check if the MEA-files are placed under the specific vehicle.

Data Control

Fill out the PVT Check excel document  digitally. PVT Check Status

Listen through the log files and make notes under "comments" for the faults found concerning the test code. Other faults and pop-ups shall be written down in an email to the project leader, vehicle owner and other interests (and Arne Olsson), and cc Jessica Erlandsson. Send from the [PVT group mail](#). Attach the digital document (PVT Check) in the email.

Save on TeamPlace

Save the PVT Check FH-xxx document in a folder and a copy (word) of the OFD email here: [Performed PVT Check](#)

- Also save locally on PC in My documents/PVT check ready.

After the Test

- Test Leader, at office

Upload in Protus

Upload the test report
PVT check in Protus:
Start [PROTUS](#);
Enter the specific
vehicle ID in the box
“Test object ID” and
press search. Find the
vehicle under “Current
version” and go to the
tab “Documents” –
Browse and upload
both documents (one
word, one excel)

Update P2540

Update the document
[PVT Check Result](#)
for the PVT result
status for the current
SW.

Don't forget to “check
out” the document
before opening it, to
prevent it to be
overwritten.

Compilation

Make a compilation of
the performed PVT
checks (which ones,
amount of Protus
points) and send it to
the coordinator to
include in PVT_status
mail once a week on
Fridays.
May look like this:



TFV Status