

VolvoTech.EU MANUAL



Kind	Installation manual
Title	Installation Manual VBB6 MC
Language	English
Version	1.10
Date	November 10 th 2013
Applicable to	VBB6 in Volvo V70/XC70/S80/XC60
Contents	Manual describes installation of the VBB6 and MiniCam



VBB6 INSTALLATION MANUAL for V70/XC70/S80/XC60

Applicable to:

VBB6 (VolvoTech's Video Break-in Box type 6)

Installation manual and description of connections.

Pre requirements for this document to be useful:

- A Volvo V70, XC70, S80 or XC60 with navigation, up to MY 2011 (NOT FOR SENSUS!)
- No known errors or failures in the electronics of your Volvo.

Need to know:

- Obviously we try to put as much information in a manual as we can. Sometimes things are "normal" and "of base logic" to us, which might not be for you, simply because you are not installing electronics in your car daily, and we are. Please in cases where we seem to miss out on information in a manual; think logically, measure power and/or contact us!
- In case you might have any questions, please email us at support@volvotech.eu
- There is technically NO difference for LHD cars or RHD cars. Note that the Camera will always be in the Right side.
- Please find the reverse light BEFORE you pull cables !
- Alternatively the connector near the trunk-inside-light can be used for connection to the reversing power!
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CONNECTIONS

Please read carefully before performing installation:

VIDEO 2 Port:
Used for the Rearview
Camera

VIDEO 1 Port:
Used for any video
playback device,
activated with the
supplied switch

Power Led:
Should **ALLWAYS** be on!

12V Power port:
Connect to the RTI
computer with the
supplied connector set.



RTI Port:
Connect to the RTI
computer with the
supplied cable.

SYNC switch:
Set to RGB-S please.
(in YOUR Volvo no
other setting possible)

Brightness and RESET:
In case the image of
the video port (Video 1)
is too dark, you can set
and change brightness
here. (NOTE : Not
required for a
VolvoTech camera, the
camera adjusts
itselfes!)
RESET : Factory default
the VBB4.



RTI Receptacle:
Connects to the
connector you need to
remove from the RTI
computer.

131128 || HC 1 || FC 3.26 ||
VBB6-MC-1.1.doc

Contact details:
VolvoTech.EU
support@volvotech.eu

VBB Power + EOPS:
In case you ordered the
combined EOPS you
can connect any
required switched
power to the RED and
BLACK wire here.



Power connector:
Connects to the Red
and black power lead at
the RTI navi Computer.
(With the supplied POSI
tabs, plug and play!)



VBB4 Connector:
Connects to the RTI
IN/OUT port of the
VBB4.

RTI Connector:
Connects to the RTI
computer, in the port
where you removed the
original grey connector
from.

Green wire ->
If cut, no parking lines!

White wire ->
If cut, image is
mirrored.
(PREFERED!)

RTI Receptable:
Connects to the
connector you need to
remove from the RTI
computer.

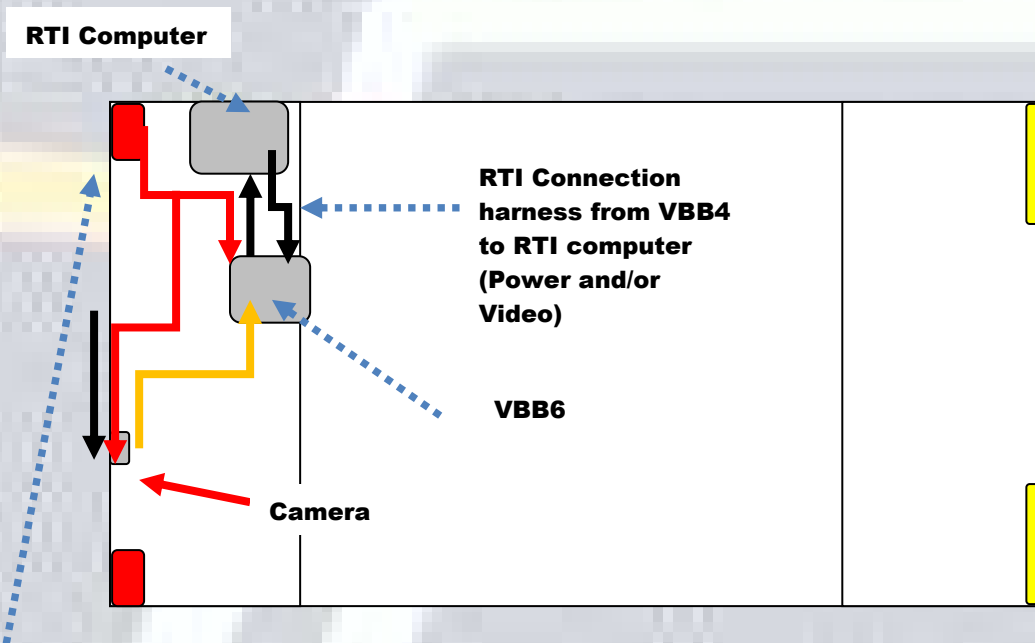


Camera:
Minicamera type.





SCHEMATIC OVERVIEW OF COMPONENTS AND WIRING.



Rear light unit:
Provides 12V+ and 12V- to
the camera and VBB4 when
car in reverse.

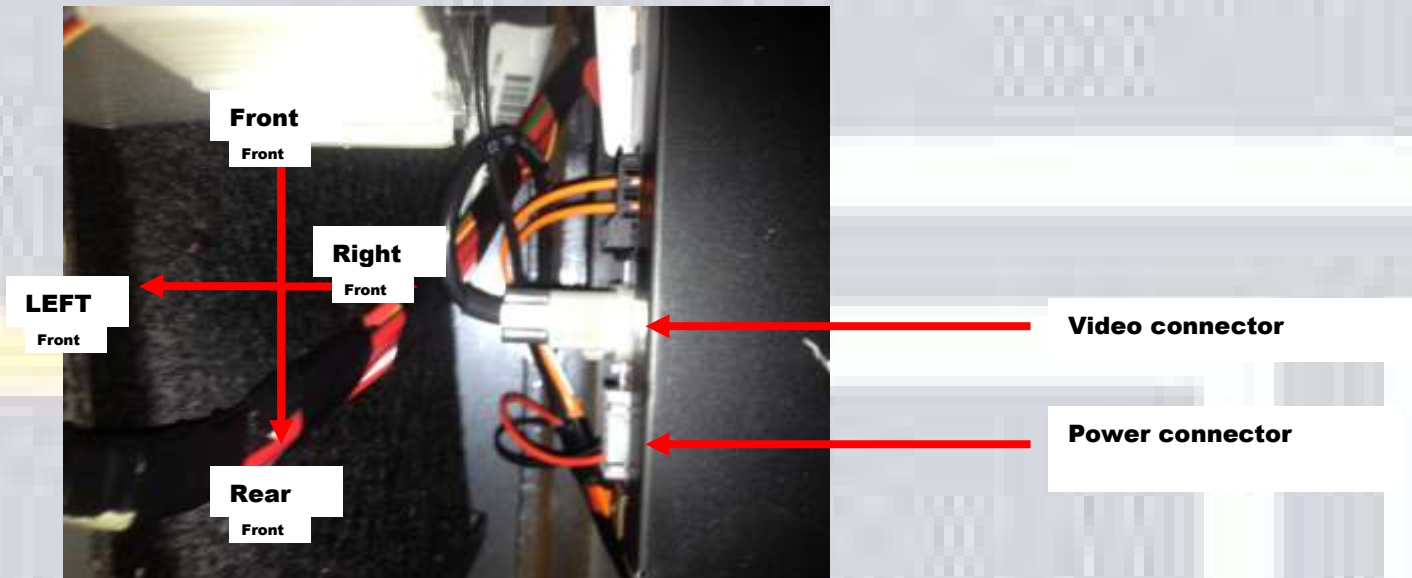


INSTALLATION

VBB6 (Video Break-in Box type 6)

Remove the 6pin video connector (same as in the supplied set) and the multi-pin (but only black and red connected) connector from the navi computer. (Just put your hand down at the left part of the trunk, where the navi computer is).







Then connect the supplied female connector to the original Video connector and push the supplied connector into the Navigation computer.



Then connect the power leads to the red (12v+) and black (12V-) wires at the Navi computer's power connector.





Now drill a 7.5 or 8mm hole in the trunk, at the location as shown above.
*(use the supplied sticker now temporarily for drilling guidance/fitting!)





After the hole is drilled, push the camera in (please already stick the supplied foam-sticker to the camera but NOT the car side yet!), push the camera in and connect the bolt onto the nock where the camera-cable comes out. (picture upside down, since trunk is open at this point of the installation!)



Then guide the cables as shown:





At the rubber, remove the rubbers from the car gently and from the guidance keepers.
Then pull the wiring trough the rubber.
(you might need to use a strong piece of metal/plastic to push a pull-wire trough).

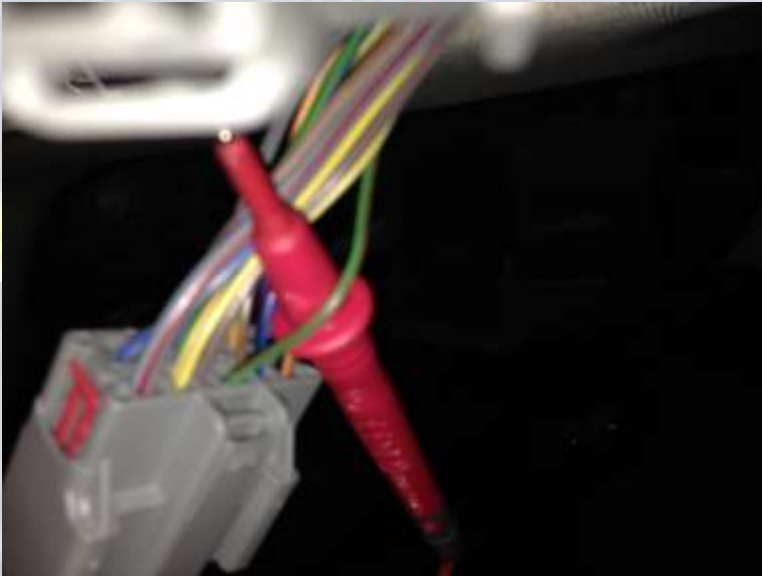


Inside the trunk, above the roofpanel, you'll find this connector.
Please guide the camera harness here to the left side (where the navigation is) of the car. If you need/want, you can connect the power for the switching/camera activation here!





The green/brown wire at the rooftop connector holds the switched 12v+ for the reverse light.



Now guide the wiring down to the VBB location and connect as set out in the schedule above and at the stickers on the wires at the set!





NOW; Run test (put car in ignition position 2 and put car in reverse gear). Camera should now be activated, RTI image should disappear. Putting gear back to "neutral" or "P" will make the camera image disappear and the RTI image to become visible again.

Now close all covers and parts of your car in reverse order.

FAQ

Frequently asked questions

Q: I installed everything correctly, but I do not see my RTI (navigation) image anymore, what is happening?

A: As the VBB6 has 2 video entries, (1 for RV camera and 1 for any other video), most probably the switch (Red/Black wired) is in the position it wants to show video from Video-1. Switching over to the other position will solve this issue.

Q: Everything "works" alright, but the image of the camera is not right, it seems like some electrical disturbance is taking place.

A: Your car has a screen which uses Negative sync for synchronising the image nicely on the screen. Setting for this is wrong. Please OPEN the VBB6 and you will find a "jumper" on pins 1 and 2. Please move the jumper to pins 2 and 3. That should solve your issue.

Q: Image from camera is really fine and sharp, but image on Video-1 source is there, but "running" on the screen and very small.

A: Most probably the source you use on Video-1 is set to PAL. The screen in your car uses NTSC, please switch the device you have connected to NTSC output. That should solve your issue.

Q: The VBB is always powered, won't that drain the battery?

A: In the end, obviously it will help drain the battery. But, in "rest" (i.e. no video source active, screen down) the VBB4 only takes app 15mA of power. This will not drain your battery far enough so starting is not possible anymore).