



V-16-01-01

VOICE of



Published for Victory Dealers, Distributors, and Service Staff



January 14, 2016

SUBJECT: VICTORY EMPULSE TT DIAGNOSTIC SOFTWARE AND SPECIAL TOOLS

MODELS: EMPULSE TT

Special Tools

Special tool kits will begin shipping early 2016. If communication with a bike is needed prior to receiving cables, please contact Victory Technical Service. There are a limited number of kits that can be loaned if needed.

The Empulse TT Service Communication poster that was recently sent out contains an optional tool that will not be offered.

<https://www.polarisdealers.com/files/ServWarr/English/Victory-ServiceComm-EmpulseTT.pdf>

Kit #2 (PV-51896) will not be shipped out or offered on the Bosch Special Tools website. The software used to connect to the Empulse TT has been updated and can be run on a 32 or 64 bit laptop. We recommend using the same computer currently used for Digital Wrench applications. Additionally, the software used to communicate with the 2016 Victory Empulse TT is also used to communicate with Legacy Brammo products.

KIT #2, PV-51896

- This kit is an OTC Genisys Touch Tablet with all required software already loaded. A tablet or laptop running 32 bit Windows 7 or greater operating system is required. The kit is optional, a sourced laptop running 32 bit version of Windows 7 or greater is also acceptable.



No Longer Offered

Downloading the Diagnostic Software

The Victory Empulse TT does not use the Digital Wrench software or any of the Digital Wrench cables that other Victory Motorcycles use.

Log in to your Polaris dealer website and go to Digital Wrench Update under Service and Warranty. There will be a new Brammo folder that will include all the necessary software and diagnostic files. Download and install the following three software files:

- Battery Diagnostics
- MC Setup Application
- Vehicle Diagnostics Application

You will also need to download and save the calibration files. You can do this by clicking on "Calibrations" under the Brammo Diagnostics, then click on "All Calibrations in Zip File Format."

Please submit an Ask Polaris® case or contact Victory Technical Service if you have any questions.



The following matrix lists the firmware and configuration files used on Empulse TT along with the program used to upload the file to the bike. After the file is uploaded to the bike, the Version Displayed should match what is in the controller.

Firmware Type	Program Used	Filename	Version Displayed
Dash	Victory Diagnostics	92906016_2_11_FIRMWARE_DASH_ICU.BIN	01.02.11
VCU F130	Victory Diagnostics	75516491_VCU2V2M26.BIN	05.02.26
VCU CPI 506	Victory Diagnostics	89210795_CPIV1_22.BIN	01.01.22
BMC	Battery Diagnostics	54302376_8X_00M67_FIRMWARE_BMS.BIN	87.00.67
Motor Controller	Victory MC Setup	19680795_SN0076-07_0X3F53.dld	SN0076.07 ROM checksum: 0x3f53
M.C. Configuration	Victory MC Setup	77218397_02_SCFG_0076-07_0x6e21.dcf	Configuration checksum: 0x6e21

Diagnostic Cables and Connector Locations

In addition to Empulse TT, cables are also being included to service legacy Brammo products. The matrix below illustrates what cables to use when connecting to various products and where the diagnostic connector is located. If you have questions or need assistance diagnosing an issue on legacy Brammo product, please contact Victory Technical service.

	Batteries		Dash/VCU		Motor Controller	
	Cables	Connector Location	Cables	Connector Location	Cables	Connector Location
2016 Victory Empulse TT	PV-51900	Under upper console, on battery	PV-51898 PV-51899	Front/RH side just under frame behind plastic	PV-51898 PV-51899	Front/RH side just under frame behind plastic
2014 Brammo Empulse	PV-51900 PV-51901 PV-51902	Communication port, Module 1 (upper, rearmost)	PV-51898 PV-51899	Front/RH side just under frame behind plastic	PV-51898 PV-51899	Front/RH side just under frame behind plastic
2013 Brammo Empulse	PV-51900 PV-51901 PV-51902	Communication port, Module 1 (upper, rearmost)	PV-51898 PV-51899	Front/RH side just under frame behind plastic	PV-51898 PV-51899	Front/RH side just under frame behind plastic
2012-2013 Brammo Enertia Plus	PV-51900 PV-51901 PV-51902	Right/Rear of Module 2 (upper)	PV-51897 PV-51898	Backside of the dash	PV-51898 PV-51899	Front/RH side just under frame behind plastic
2011-2012 Brammo Enertia Basic	NA	NA	PV-51897 PV-51898	Backside of the dash	PV-51898 PV-51899	Front/RH side just under frame behind plastic
2009-2010 Brammo Enertia Legacy	NA	NA	PV-51897 PV-51898	Backside of the dash	PV-51897 PV-51898	Backside of Dash