

CANSwitch

Firmware Release Notes



V2.2 © 2018 Booleanware (Pty) Ltd.
Revision A
01 May 2017



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Important information

This manual assumes you have already read the CANSwitch User Manual. If not, please familiarise yourself with the user manual before continuing to read this manual.

The newest firmware, PC utilities, user manuals, installation diagrams, etc is available from www.canswitch.co.za

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Introduction

From time to time, as features are added or program bugs are fixed, newer versions of CANSwitch becomes available. This manual describes the changes made to each version of CANSwitch.

System Module Firmware

The system module firmware is the main firmware of the CANSwitch device. Each series of CANSwitch has its own system module firmware.

Series 4

Date	Filename	Version	Description
01 May 2018	03020403(Series4).CSF	3	Fixed a problem related to using <code>—[RES]—</code> token. Eliminate faint glow of output 7, 8 LEDs when not used. Refresh all outputs at least every 50mS (instead of only when updated by ladder program).
07 Dec 2017	03020402(Series4).CSF	2	Fixed a problem with the <code>—[ONT]—</code> and <code>—[OFT]—</code> tokens with initial (power-on) use
01 Dec 2017	03020401(Series4).CSF	1	First release of CANSwitch Series 4
			Support for up to 8 accessories
			Supports linking of outputs to increase current drive

Series 3

Date	Filename	Version	Description
01 May 2018	02020309(Series3).CSF	9	Fixed a problem related to using <code>—[RES]—</code> token.
07 Dec 2017	02020308(Series3).CSF	8	Fixed a problem with the <code>—[ONT]—</code> and <code>—[OFT]—</code> tokens with initial (power-on) use
01 Dec 2017	02020307(Series4).CSF	7	Supports linking of outputs to increase current drive

WiFi Module Firmware

The WiFi module firmware manages the CANSwitch WiFi network and connections. Each series of CANSwitch has its own WiFi module firmware.

Date	Filename	Version	Description
26 Dec 2017	CANSwitchWiFi18(Series3).bin CANSwitchWiFi18(Series4).bin	1.8	Improved connection quality during firmware OTA updates.
			Disconnect WiFi after “Off Delay” even if clients are connected, but not while clients are using the browser.
01 Dec 2017	CANSwitchWiFi17(Series3).bin CANSwitchWiFi17(Series4).bin	1.7	Support 8 accessories on the installation test page for Series 4 CANSwitch devices.

Ladder Editor PC utility

The Ladder PC editor utility is used to upgrade the CANSwitch firmware, and edit and download ladder diagrams. The Ladder PC software is Windows based.

Date	Version	Description
26 Dec 2017	2.2 (BETA)	Improved connection quality during firmware OTA updates.
07 Dec 2017	2.1 (BETA)	Fixed user variable when used with <code>—[ONT]—</code> and <code>—[OFT]—</code> tokens
01 Dec 2017	2.0 (BETA)	First release that supports CANSwitch Series 4
		Added options to associate outputs with Master Relays
		Added option to link outputs together for increased current drive.
		Widened ladder diagrams to cater for future User Interface (old diagrams are automatically adjusted when loaded)

CAN MAP files

CANSwitch can be used on many different bike models. Each of these models may have different formats of data presented on the CAN bus. CANSwitch needs to know the format of the CAN data for each model, and for this a CAN map is used. The CAN map is like a map for CANSwitch, that tells it where in the CAN data to find the information it is interested in, for example where in the CAN data to find the motorcycle's speed.

There is a CAN map for each model supported by the CANSwitch. Some models have identical CAN data, and these models will share a map file. When you create a ladder diagram you must also specify which CAN map to use. These maps are updated as new model data becomes available. You should always use the newest CAN map available for any given model. The CAN map file has a .SCM extension, and is installed together with the ladder editor program. The map file is named by the motorcycle model designation and factory code, and a version number. For example, the file "BMW R1200GS(A) [K50-K51] V3.SCM" signifies it is for the BMW R1200GS and R1200GS Adventure, K50/K51 (Liquid Cooled) model, and is version 3 of the map file. As new map files are made available the version number will increment.

The CAN Map files are usable on both the Series 3 and the Series 4 CANSwitch.

Date	Filename	Version	Model	Description
01 May 2018	BMW R1200GS(A) [K50 K51] V4.SCM	4	R1200GS/A LC	Add support for outside (ambient) temperature. Fixed brake switch detection during engine cranking.
01 Dec 2017	BMW R1200GS(A) [K50 K51] V3.SCM	3	R1200GS/A LC	Supports throttle position (-5%..100%, idle is at 0%)
01 Dec 2017	BMW R1200R [K52 K54] V1.SCM	1	R1200R/RS/RT	First release.
01 Dec 2017	BMW S1000XR [K49] V1.SCM	1	S1000XR	First release.
25 Mar 2017	BMW R1200GS(A) [K25 K26] V2.SCM	2	R1200GS/A Air	First release.
25 Mar 2017	BMW RnineT [K21] V1.SCM	1	RnineT	First release.
25 Mar 2017	BMW F800GS(A) [K72 K75] V1.SCM	1	F800GS/A	First release.

Liability

The CANSwitch is designed to withstand the harsh electrical environment of motorcycles. While it protects itself against short circuits, reverse voltages and high currents, prolonged exposure to such adverse conditions may damage it and render it inoperable. The CANSwitch is rigorously tested before shipment, and guaranteed to be in proper working order. However, due to the self-installation of the CANSwitch, we do not accept any responsibility or liability for damage to the unit or the motorcycle it is installed on. We do not undertake any repairs to such damaged units or motorcycles, nor do we provide a refund or exchange a damaged unit.

While CANSwitch was designed with ease of installation in mind, and while it eliminates the need to cut into any of the motorcycle's existing wires and thereby helps protect the motorcycle's warrantee, it has not been approved by any motorcycle manufacturer as an aftermarket accessory. The onus is on the user to ensure proper installation and the user thus carries any and all risks.

If you have any doubt whatsoever about any electrical connections to be made we advise you to seek the help of an auto electrician. Help is also always available via email to info@canswitch.co.za.