

NA953022 BT Module Integration Manual

September 23, 2025

The NA953022 BT module is intended only for use in proprietary Stanley Black and Decker power tools and lighting products. It is not intended for sale to third parties and these integration instructions are internal, manufacturing documents.

FCC Part 15.212(a)(1) Modular Transmitter Requirements:

- (i) The module has its own shielding, consisting of a soldered-down sheet metal shield and ground plane layer internal to the PCB construction. This shielding fully encapsulates the RF transmitter circuitry.
- (ii) The module's data inputs are buffered internal to the Bluetooth IC on the module.
- (iii) The module contains its own power supply regulation, separate from the host, internal to the Bluetooth IC.
- (iv) The antenna for the module is permanent and soldered to the module PCB. The antenna design cannot be changed without a Class II permissive change application for this module.
- (v) The module has been tested in a stand-alone configuration, independent of any host device.
- (vi) The module is labeled with its FCC ID and IC numbers granted by the FCC and ISRD after authorization. These identification numbers must appear on a permanent label on the host device. See the labeling instructions in this integration manual.
- (vii) The module complies with FCC Part 15C, Intentional Radiator requirements. § 15.247 describes operation requirements for the module transmit frequency range of 2400-2483.5MHz.
- (viii) The module meets Portable exclusion levels.

Module Integration Instructions:

The NA953022 module is an intentional radiator and is therefore governed by the FCC rules 47 CFR Part 15, Subpart C. As a Bluetooth radio transmitting in the frequency range 2400-2483.5 MHz, § 15.247 applies. The module is not for sale and only to be used by the Grantee in their proprietary power tools without any modifications to the radio circuitry or PCB antenna.

A fixed PCB mounted antenna is integral to this radio module. This antenna cannot be modified in any way without a Class II Permissive Change filing for the module.

Changes or modifications to the module not expressly approved by Stanley Black & Decker could void the user's authority to operate the device.

Host Device Testing Guidance:

This modular transmitter is ONLY authorized for the specific FCC and ISSED intentional radiator rules listed in the grants of authorization. The host device must be evaluated for RF compliance, including compliance to any other FCC and ISSED rules that apply to the host device not covered by the modular transmitter grant. At a minimum, the host device must be evaluated for compliance to 47 CFR Part 15, Subpart B with the module installed. Additionally, transmitter spot checks shall be performed to ensure compliance is maintained in the host. Testing may include bandedge, power spectral density, radiated spurious emissions.

If the host device contains additional intentional radiator devices, modular or otherwise, all transmitter devices must be operated simultaneously to ensure that the transmitters can be co-located. The host device is otherwise operated in a typical user mode. The antenna used for this transmitter must not transmit simultaneously with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

Refer to the FCC KDB 996369 D04 Module Integration Guide for additional guidance.

Host Device Labeling Instructions:

The host device employing the NA953022 module shall be permanently marked with a label stating, “Contains FCC ID: YJ7-NA953022” and “Contains IC: 9082A-NA953022”. If the host device employs additional certified modules, the FCC ID and IC number for each additional module can be appended to each statement. The two statements can be combined so that only one “Contains” is used, but the other text is required. E-labeling of the host device is also allowed. Check current agency regulations for e-labeling.

Host devices that comply with the RF requirements must follow the Labeling requirements in §15.19 of 47 CFR Part 15 and bear the following compliance statement:

“This device complies with part 15 of the FCC Rules and Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.”

Labels should be placed in a conspicuous location on the device if space allows. If there isn't enough space to accommodate this compliance statement in at least 4 point size, the statement must be included in the user manual and on the packaging of the host device.