

# **RF Unit**

## **621717\*0**

### **User's Manual**

COPY

Ver1.0

December 1, 2005



## **FCC Notices**

**This device complies with Part 15 of the FCC Rules. 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.**

**CAUTION:** Change or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his or her own expense.

**FCC ID: TR200000000001**

## ***(1) Product Overview***

The 631717\*0 is designed to provide wireless communication for battery-operated tools. It communicates via the class 2 of the Bluetooth V1.1 protocol. The 621717\*0 can be attached to Makita's battery-operated tools and it can be used to communicate with Wireless Data receiver.

## ***(2) Features***

### **Bluetooth Features**

Compact wireless data communication module designed for Makita's battery-operated tools

Low power CSR BlueCore2-Ext Chipset (Bluetooth V1.1)

Tx output: 0.8mW

Tx and Rx Operation Frequency: 2402-2480 MHz

Modulation Method: Frequency Hopping Spectrum Spread (FHSS)

### **Physical Attributes**

Size: 90mm L x 96mm W x 15mm H

Weight: 0.015 Kg

Operating Temperature: -20 deg. C to +70 deg. C

Power Requirements: 0.3 W @ +3.3 VDC from Battery-operated tools



### **(3) Operation**

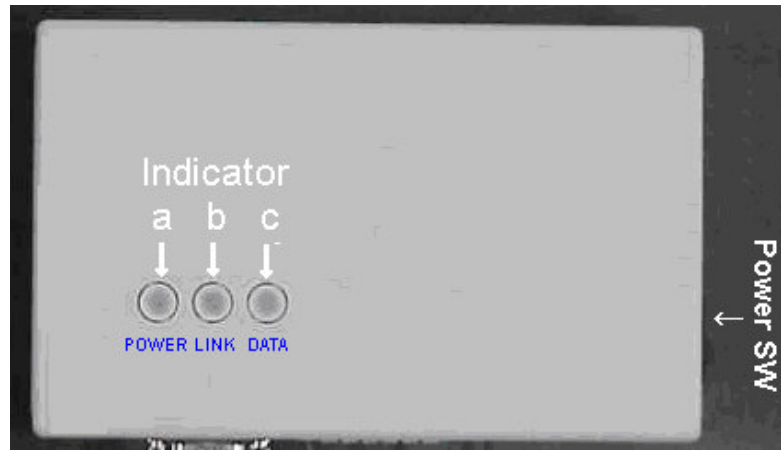
#### **To Equip the RF unit (631717\*0) with a Makita's battery-operated tool**

- (1) Remove a battery unit from the tool that you want to equip the RF unit with.
- (2) Remove 6 (six) screws from the tool grip and open the grip cover.
- (3) Pull a "connector and cable assembly " inside the grip and put it to the RF unit.
- (4) Hook up a projection of the RF Unit into a hole to the grip.
- (5) Set 6 (six) screws to the grip carefully.
- (6) Set a battery unit to the tool.



#### **Setting up the RF unit (631717\*0)**

- (1) This setting up procedure needs only once when you are going to connect the RF unit to the Makita's wireless data receiver.
- (2) First of all, turn on the power SW both of the tool, that RF unit is equipped with, and the Makita's wireless data receiver.
- (3) Set rewind and operate the tool over 5 (five) minutes by grabbing the trigger SW.
- (4) Push the resistor SW on the Makita's wireless data receiver and check its link indicator 'b' on its top blinking.
- (5) Confirm the link indicator continually turning on, then setting up has completed.



### **To send data from the RF unit to the Wireless data receiver**

- (1) Turn on the power SW both of the tool, that RF unit is equipped with, and the Makita's wireless data receiver. Wait 5 (five) seconds and confirm the link indicator of the receiver continually turning on.
- (2) The data on the result (pass or fail), whether the tighten torque meet the setting value of the tool, will be automatically sent from the RF unit to the Wireless data receiver whenever the clutch of the tool release the rotation.

#### **(4) Hints & Tips**

- (1) The RF unit may not work well where Microwave ovens and /or other 2.4GHz ISM devices like wireless LAN are working. Keep RF unit and wireless data receiver away from these devices.
- (2) For your safety operation, read carefully the tool's User's manual before equipping the RF unit to the tool together with this manual and that of the wireless data receiver.
- (3) The RF unit complies with Part 15 of the FCC Rules. Read carefully the FCC notice at beginning page of this manual for legal operation.

#### **(5) Specification**

Operation Voltage	3.15V to 3.63VDC	
Power Consumption	Tx Operation: 210mW, Stand by Operation: 9mW	
Operation Temperature	-20 deg. C to +70 deg. C	
Size / weight	90mm (L) x 96mm (W) x 15mm (H) / 0.0015 Kg	
Bluetooth	Version	V1.2
	Output Class	Class 2 (0.8mW)
	Supported Profile	Serial Port Profile
	Coverage	10m
	Type approval	FCC CE TELEC

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