

AS-61WL / RC-603WL ANTENNA SWITCH

Operation Manual



V. 1.3

AS-61WL / RC603WL

Automatic Antenna Switch 6x3

The **AS-61WL/RC-603WL** is an automatic antenna switch for three radios and six antennas. There are two independent boxes, one for the antenna switch that is near the antennas, **AS-61WL**, and another box with the Push Buttons for the selection of the antennas and the Radios, **RC-603WL** that is next to the Radio. **The connection between the two boxes is only made with the RF cable (RG-58 or RG-213). This cable takes RF, power and the necessary commands for the perfect operation of this system.** The **RC-603WL** also allows the insertion of a linear amplifier or a wattmeter, or both. In this way these equipment will always be connected with the Radio and the antenna selected. The operation is individual, which means that only the selected radio will have access to the antennas. Unused antennas are automatically short circuited.

To facilitate the operation, the **RC-601WL** also has a third internal switch that switches the Send commands and the Com port to the selected Radio.

The **AS-61WL / RC-603WL** supports communication with the following radios:

Icom (CI-V), **Kenwood** (RS-232), **Elecraft K3** (RS-232), **Yaesu** (RS-232) or any other Radio that uses one of these communication protocols.

Procedure for connecting the RC-603WL to the radio:

- 1- On the **RC-603WL** press and hold the yellow radio select Push button and turn on the **RC-603WL**.
 - 2- Then press the white Push Button corresponds to the model of the radio that you will connect, according to the list below;
 - a- **Ant 1** Push Button for **Icom** (CI-V) radios **Baud rate 19200**
 - b- **Ant 2** Push Button for **Yaesu** type FT-817, FT-857 and others. **Baud rate 4800**
 - c- **Ant 3** Push Button for **Yaesu** type FT-1000 MP radios and others. **Baud rate 4800**
 - d- **Ant 4** Push Button for **Yaesu** type FT-5000 radios and others. **Baud rate 4800**
 - e- **Ant 5** Push Button for **Kenwood, Elecraft, Flex Radio**, and others. **Baud rate 480**
- After the choice, the Split mode indicator LED stops blinking, this indicates the end of this procedure.

Procedure to use the AS-61WL/RC-603WL Split mode:

To use Split mode the **RC-603WL** must be connected to the radio with the proper cable.

- 1- Press the PTT of the radio and watch the **RC-603WL**'s Send LED indicator light up.

Then with the PTT still pressed, choose the receiving antenna. At this time the Split indicator LED lights up.

When the PTT is released, the **RC-603WL** will switch to the chosen receiving antenna.

Each time you press the PTT it returns to the transmitting antenna.

Any change of antenna or band on the radio deactivates Split mode.

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The image shows the RC-603WL Remote Control unit, a black rectangular device with various ports and controls. A red box highlights the three radio channels (Radio 1, Radio 2, Radio 3) on the front panel. A red line connects this box to a detailed pinout diagram of the Mini DIN 7P connector.

CONNECTOR MINI DIN 7P

The pinout diagram shows the following connections:

- Pin 1: +13.8V
- Pin 2: PTT
- Pin 3: GND
- Pin 4: RS-232 (TX)
- Pin 5: RS-232 (RX)
- Pin 6: CIV
- Pin 7: +5V

The diagram also shows the physical layout of the pins on the connector, with pins 1 through 7 numbered and color-coded to match the labels.

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Size:	Number:	Identification Pin	Rev.
A4		RC-603WL	1.0
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RC-603WL

ELEKRAFT K3

RC-603WL Radio 1 a 3 MINI DIN 8P	CONNECTION CABLE	K3 RS232 DB9 M	K3 PTT IN RCA M	K3 12VDC RCA M
5 - TX		3 - TXD OUT		
4 - RX		2 - RXD IN		
3 - GND		5 - GND		
2 - PTT			PTT IN (+)	
			GND (-)	
1 - +12V				12VDC (+)
				GND (-)

CONNECTOR MINI DIN 7P

CIV
RS-232 RX
RS-232 (TX)
PTT
+5V
GND
+13.8V

Cable ERC-6

RCA M
(-)
(+)

RCA M
(-)
(+)

RS232

NC
RXD IN
TXD OUT
DTR
GND

NC
RTS
NC
NC
NC

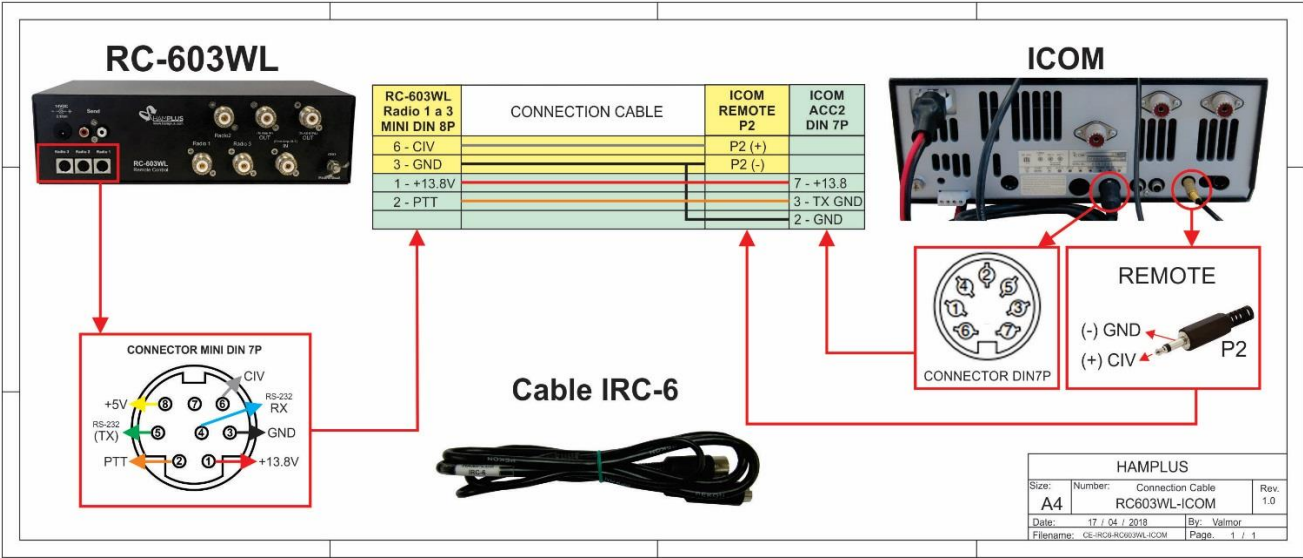
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Size: A4
Number: 17 / 04 / 2018
Date: 17 / 04 / 2018
Filename: CE-ERC6-RC603WL-K3

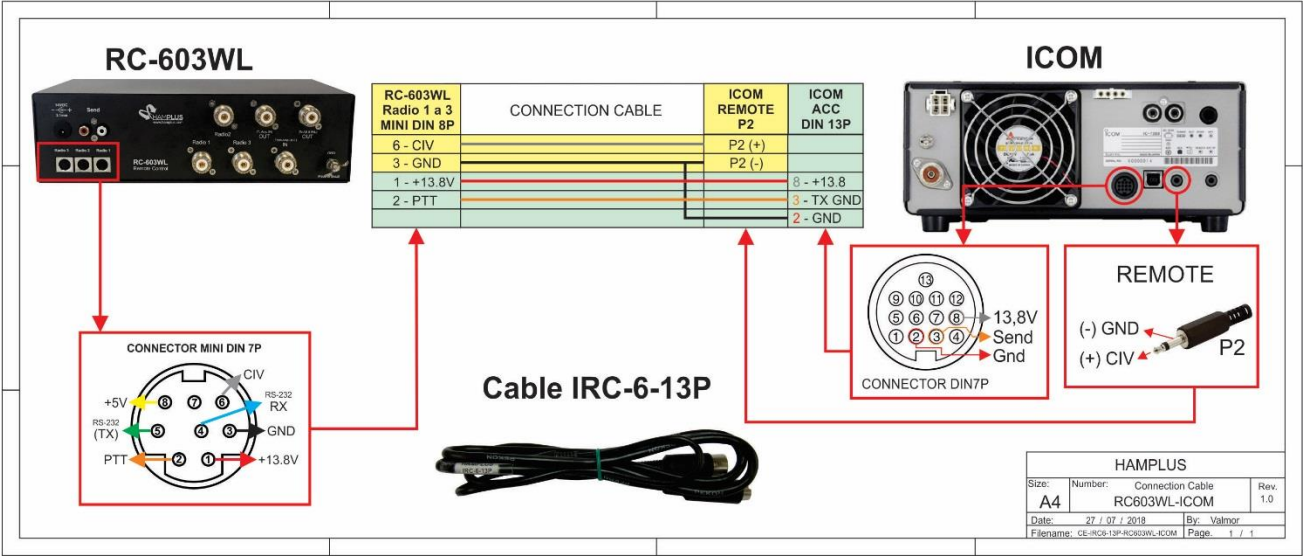
Connection Cable
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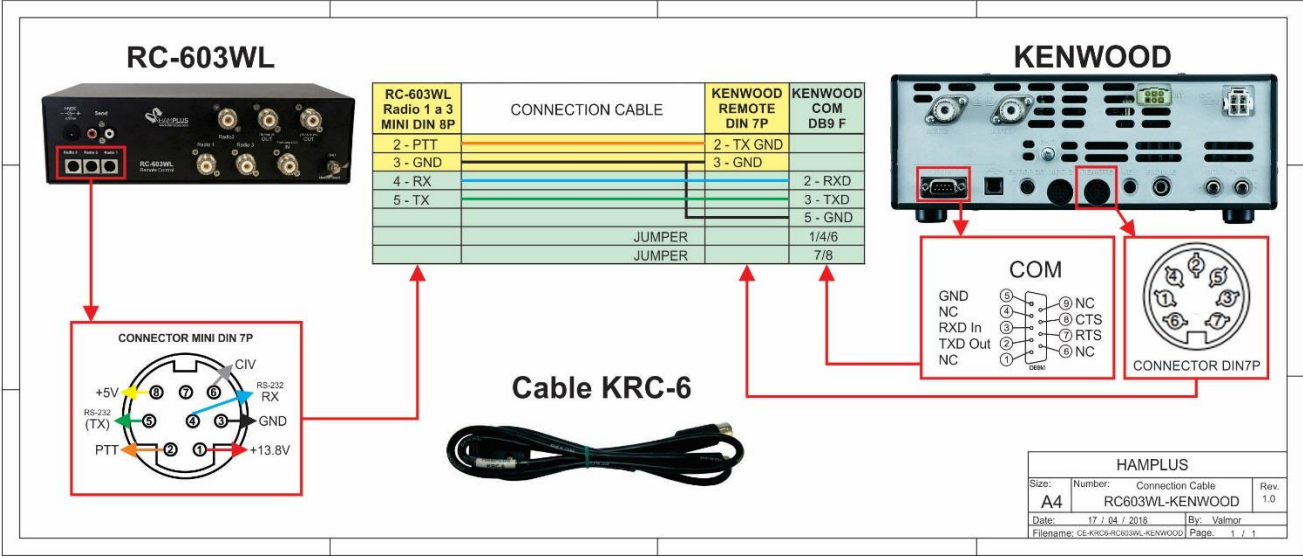
RC-603WL / ICOM Connection Cable



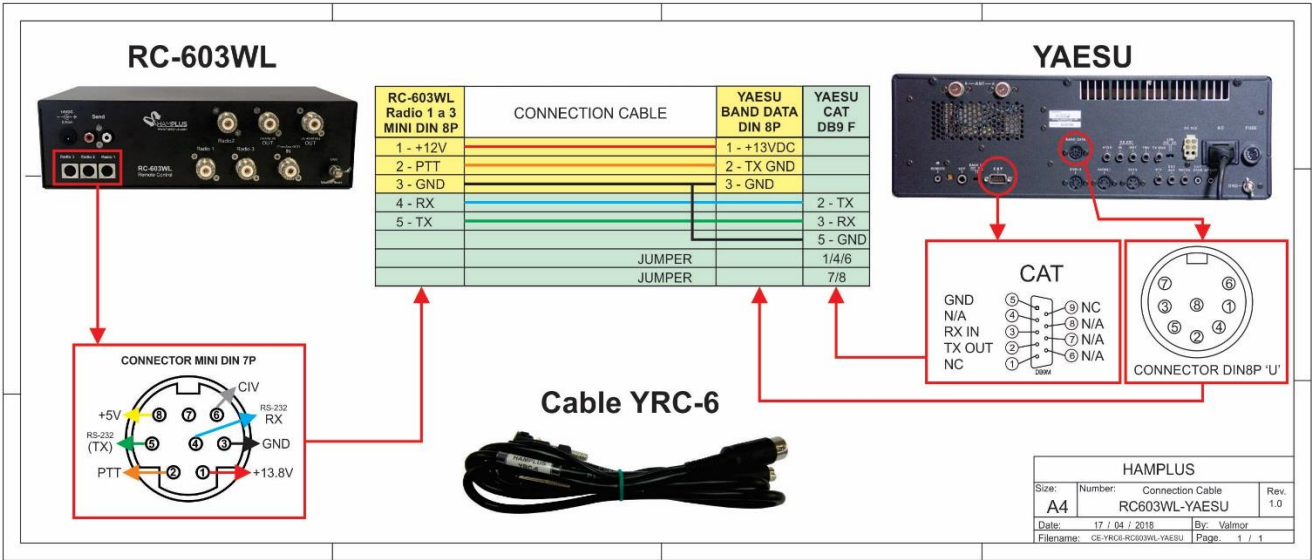
RC-603WL / ICOM Connection Cable



RC-603WL / KENWOOD Connection Cable



RC-603WL / YAESU Connection Cable



RC-603WL / YAESU-FT817 Connection Cable

