IS79 Rev.00
30/06/2013

ROGER RADIOCOMANDI

Rolling Code
E80/TX2R/RC - E80/TX4R/RC

ROGER TECHNOLOGY
automazioni evolute

1 Product description

Rolling code remote control adopts the standard RTHSE (Roger Technology High Security Encryption) which allows a very high degree of security for the remote control of an access, thanks to 144-bit processed using encryption multilevel. Copying the code on another transmitter remain unaltered the characteristics of safety, and allows an easy addition of transmitters already in operation in the installation (see instruction of the receiver model H93/RX2RC/I ref. "ADVANCED mode").

2 Functions of the buttons

The buttons do not have a predetermined functions, and may be stored on any function of the radio receiver. They can also be associated with a fixed code copied from another transmitter.

3 Storing a code on the receiver

WARNING! a button of the transmitter can be associated to a single receiver function

1. Press the button P1 if you want to store button of the transmitter in the function 1 of the receiver or the P2 button for the function 2 (the storing procedure is the same for both functions). When you release the button, the corresponding LED flashes 4 times slowly.
2. During this time, press the button of the transmitter you want to store.
3. A prolonged power LED (1 ") indicates that it has been stored, while some quick flashes indicate that the button of the transmitter is already stored in a function of the receiver.
4. The LED continues with another 4 slow flashes waiting further store (return to step 2). If other codes are not transmitted the receiver exits from the storage codes.

4 Replacing the battery

To replace the battery, unscrew with a screwdriver the two screws on the back of the transmitter (**PICTURE 2**). Pay attention to the polarity indicated on the battery holder. Be careful not to overtighten the screws when you close the case.

5.1 Copying code from another transmitter with fixed code

The following will be called

- *MAIN transmitter: the transmitter that you want to copy*
- *SECONDARY transmitter: The transmitter on which you want to copy the code of the MAIN transmitter*

1. On the SECONDARY transmitter, press the button on which you want to store the code together with the opposite (A together with B, or C together with D, **PICTURE 1**): the LED flashes for 5 seconds then becomes fixed.
2. At this point, only press the button in which you want to copy the code and release the other.
3. While waiting for the code to be copied, the LED will flash briefly repeated: proceed with the next points.
4. Put the MAIN transmitter in front of the SECONDARY transmitter and press the button to copy on the MAIN transmitter (see **PICTURE 1**).
5. Observe the LED on the SECONDARY transmitter to verify the outcome of the copy:
   - o If the LED lights for one second and then turns off, the copy of the code is successful. You can release all the buttons.
   - o If the LED continues to emit short flashes means that it has not yet received a valid transmission.
   - o If the light is on and fixe*d, learning failed: Try again.*

After doing the copy of code check that the transmitter where you copied the code (SECONDARY transmitter) is working on the receiver. Remember to leave at least one button with the code of the original rolling; this is enough to create SECONDARY transmitters with rolling code feature on all buttons.

5.2 Copying code between transmitters E80/TX2R/RC - E80/TX4R/RC

The following will be called

- *MAIN transmitter: is the transmitter as produced in the factory, on which were not copied codes from other transmitters E80/* ***TX2R/RC–E80/TX4R/RC****; it is recognized as the flashing LED during transmission is rapid.*
- *SECONDARY transmitter: is a transmitter on which has been copied the code of a MAIN* ***E80/TX2R/RC–E80/TX4R/RC****; it is recognized as the flashing LED during transmission is slow. On it all the codes associated with the buttons have been replaced by codes taken from the MAIN transmitter. WARNING! If you want to copy also fixed codes on the some buttons, do the copy of fixed codes only after you have copied the MAIN code rolling code.*

Follow the 1...5 steps of the 5.1 chapter to make the copy.

WARNINGS

- Just do the copying of the code only for one button: automatically the other buttons will already be associated with the new code
- If on the MAIN transmitter have been copied also fixed codes from other transmitters, they will not be copied to the SECONDARY transmitter.
- You can copy the code to a MAIN transmitter in up to three SECONDARY transmitters.
- You cannot copy the code of a SECONDARY transmitter. Once a transmitter becomes SECONDARY will always have the characteristics of SECONDARY and cannot generate copies; you can still copy the code on it from a different MAIN transmitter replacing the one you had previously.

5.3 Code copying troubleshooting

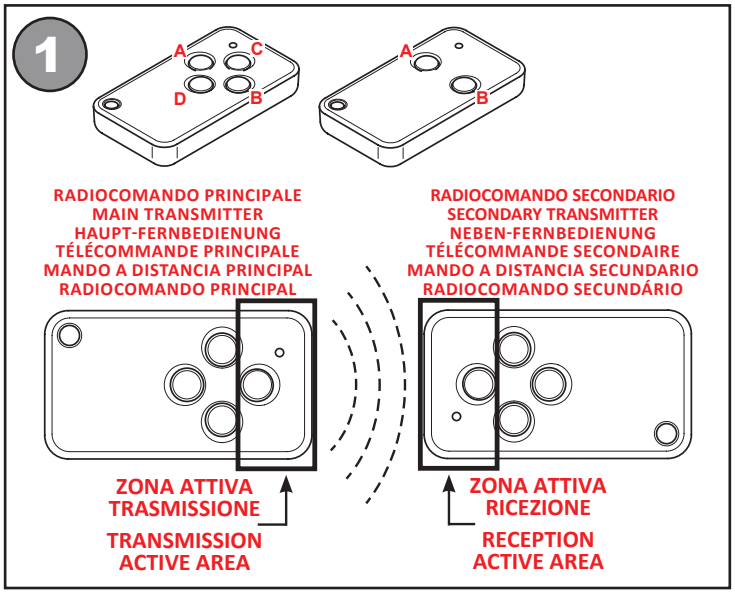
Description of the problem	Reports and checks	Resolution
You are not able to copy the code from a SECONDARY transmitter	The SECONDARY transmitter emits a series of quick flashes and then remains fixed	The battery of the SECONDARY transmitterneeds to be **replaced.**
	The SECONDARY LED transmitter after the series of short flashes lights steady	Insufficient signal level, it is not possible to complete the copy: **replace the battery of the MAIN transmitter**
Despite having replaced the batteries of the transmitters you are not able to complete the process of learning	Make sure not to place it on a metal plane	The metal under the transmitters or nearby makes it difficult the learning procedure. If necessary, check that you fully press the button of the main transmitter and try to change the position of the radio controls to improve the coupling between them.
The fixed codes that were previously copied no longer work after you have copied the code from the remote control E80/TX2R/RC-E80/TX4R/RC	During transmission, the flashing LED is slower?	The procedure of copying the code from a MAIN transmitter to the SECONDARY transmittes involves the cancellation of the fixed codes previously stored: **re-run the process of learning of fixed codes**
Having excluded above issues the copy of the code is not successful	Check if you are trying to copy the code from a SECONDARY transmitter (During transmission, its LED flashes slower?)	You cannot copy the code from a SECONDARY transmitter.
All of the above conditions are met but it is not possible to complete the copy of the code	Check if the MAIN transmitter that you want to copy has already generated 3 SECONDARY transmitters	A MAIN transmitter has the ability to copy its code within maximum 3 SECONDARY transmitters

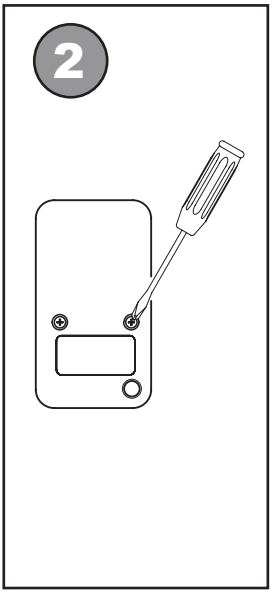
6 Disposal

The product should always be uninstalled by qualified technical staff using appropriate procedures for the correct removal of the product.
This product is made from various kinds of materials, some can be recycled others must be disposed of through recycling or disposal systems established by local regulations for this category of product.
It is prohibited to dispose this product as household waste. Do the "separate collection" for disposal according to the methods established by local regulations; or return the product to the seller when buying an equivalent new product.
Local regulations may provide heavy penalties for illegal disposal of this product.
Caution: Parts of the product may contain pollutants or hazardous, if disperse could cause harmful effects on the environment and human health.

7 Specifications

	E80/TX2R/RC	E80/TX4R/RC
NUMBER OF BUTTONS	2	4
NUMBER OF BITS OF THE CODE ID CODE	32	
NUMBER OF COMBINATIONS OF CODE	4.294.967.296	
NUMBER OF BIT TRANSMITTED	144	
TRANSMISSION FREQUENCY AND MODULATION	433.92 MHz AM/ASK	
MAXIMUM DISTANCE IN OPEN FIELD	150m	
BATTERY AND AVERAGE CONSUMPTION	1xCR2032 3V 12mA	
OPERATING TEMPERATURE	-10°C ÷ +55°C	
TYPES OF CLONABLE FIXED CODES	MANCHESTER, PCM. Max.64bit	
DIMENSIONS AND WEIGHT OF THE PRODUCT	37,4x67,9x11,2mm Weight:22g	





DICHIARAZIONE DI CONFORMITA'
Il sottoscritto, rappresentante il seguente costruttore
Roger Technology
Via Botticelli 8, 31021 Bonisiolo di Mogliano V.to (TV)
DICHIARA che l'apparecchiatura descritta in appresso:
Descrizione: Radiocomando
Modello: E80/TX2R/RC - E80/TX4R/RC - M80/TX2R/RC
È conforme alle disposizioni legislative che traspongono le seguenti direttive:
– 1999/5/CE e successive modifiche
– Direttiva RoHS (2011/65/EU)
E che sono state applicate tutte le norme e/o specifiche tecniche di seguito indicate:
EN 300 220-1 V2.4.1:2012-05; EN 300 220-2 V2.4.1:2012-05
EN 301 489-3 V1.4.1:2002; ETSI EN 301 489-1 V1.9.2:2011
EN 62479
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+AC:2011
Ultime due cifre dell'anno in cui è stata affissa la marcatura CE sono 14.
Luogo: Mogliano V.to
Data: 27-06-2014 Firma

DECLARATION OF CONFORMITY
The undersigned, representing the following manufacturer
Roger Technology
Via Botticelli 8, 31020 Bonisiolo di Mogliano V.to (TV)
DECLARES that the equipment described below:
Description: Remote control
Model: E80/TX2R/RC - E80/TX4R/RC - M80/TX2R/RC
Is in conformity with the legislative provisions that transpose the following directives:
– 1999/5/CE and subsequent changes
– RoHS directive (2011/65/EU)
And has been designed and manufactured to all the following standards or technical specifications:
EN 300 220-1 V2.4.1:2012-05; EN 300 220-2 V2.4.1:2012-05
EN 301 489-3 V1.4.1:2002; ETSI EN 301 489-1 V1.9.2:2011
EN 62479
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+AC:2011
Last two figures of the year in which the CE mark was affixed are 14.
Place: Mogliano V.to
Date: 27-06-2014 Signature

KONFORMITÄTSERKLÄRUNG
Der Unterzeichnete, der den folgenden Hersteller vertritt
Roger Technology
Via Botticelli 8, 31020 Bonisiolo di Mogliano V.to (TV)
ERKLÄRT, dass das wie folgt beschriebene Gerät:
Beschreibung: Fernbedienung
Modell: E80/TX2R/RC - E80/TX4R/RC - M80/TX2R/RC
Den gesetzlichen Bestimmungen entspricht, die die folgenden Richtlinien umsetzen:
– 1999/5/EG und nachfolgende Änderungen
– RoHS-Richtlinie (2011/65/EU)
und dass alle nachfolgend angegebenen Vorschriften und/oder technischen Spezifikationen angewandt wurden:
EN 300 220-1 V2.4.1:2012-05; EN 300 220-2 V2.4.1:2012-05
EN 301 489-3 V1.4.1:2002; ETSI EN 301 489-1 V1.9.2:2011
EN 62479
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+AC:2011
Die letzten beiden Zahlen des Jahres, in dem die CE-Kennzeichnung angebracht wurde 14.
Ort: Mogliano V.to
Datum: 27-06-2014 Unterschrift

DECLARATION DE CONFORMITE
Le soussigné, représentant du constructeur suivant
Roger Technology
Via Botticelli 8, 31020 Bonisiolo di Mogliano V.to (TV)
DECLARE que l'équipement décrit ci-dessous:
Description: télécommande
Modèle: E80/TX2R/RC - E80/TX4R/RC - M80/TX2R/RC
Est conforme aux dispositions législatives qui répondent aux directives suivantes
– 1999/5/CEE et amendements successifs
– directive RoHS (2011/65/EU)
Et que toutes les normes et/ou prescriptions techniques indiquées ci-dessous ont été appliquées
EN 300 220-1 V2.4.1:2012-05; EN 300 220-2 V2.4.1:2012-05
EN 301 489-3 V1.4.1:2002; ETSI EN 301 489-1 V1.9.2:2011
EN 62479
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+AC:2011
Deux derniers chiffres de l'année où le marquage CE 14 a été affiché.
Lieu: Mogliano V.to
Date: 27-06-2014 Signature:

DECLARACION DE CONFORMIDAD
El que suscribe, en representación del siguiente constructor
Roger Technology
Via Botticelli 8, 31020 Bonisiolo di Mogliano V.to (TV)
DECLARA que el equipo descrito a continuación:
Descripción: mando a distancia
Modelo: E80/TX2R/RC - E80/TX4R/RC - M80/TX2R/RC
Es conforme a las disposiciones legislativas que transcriben las siguientes directivas:
– 1999/5/CEE y sucesivas modificaciones
– directiva RoHS (2011/65/EU)
Y que han sido aplicadas todas las normas y/o especificaciones técnicas indicadas a continuación:
EN 300 220-1 V2.4.1:2012-05; EN 300 220-2 V2.4.1:2012-05
EN 301 489-3 V1.4.1:2002; ETSI EN 301 489-1 V1.9.2:2011
EN 62479
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+AC:2011
Últimas dos cifras del año en que se ha fijado la marca CE es 14
Lugar: Mogliano V.to
Fecha: 27-06-2014 Firma

DECLARAÇÃO DE CONFORMIDADE
O abaixo assinado, representante do seguinte fabricante
Roger Technology
Via Botticelli 8, 31021 Bonisiolo di Mogliano V.to (TV)
DECLARA que o aparelho aqui descrito:
Descrição: radiocomando
Modelo: E80/TX2R/RC - E80/TX4R/RC - M80/TX2R/RC
Está em conformidade com as disposições legislativas que transpõem as seguintes directivas:
– 1999/5/CEE e subsequentes emendas
– directiva RoHS (2011/65/EU)
E que foram aplicadas todas as normas e/ou especificações técnicas indicadas a seguir:
EN 300 220-1 V2.4.1:2012-05; EN 300 220-2 V2.4.1:2012-05
EN 301 489-3 V1.4.1:2002; ETSI EN 301 489-1 V1.9.2:2011
EN 62479
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+AC:2011
Últimas duas cifras do ano em que a marcação CE foi aposta è 14.
Lugar: Mogliano V.to
Data: 27-06-2014 Assinatura:

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