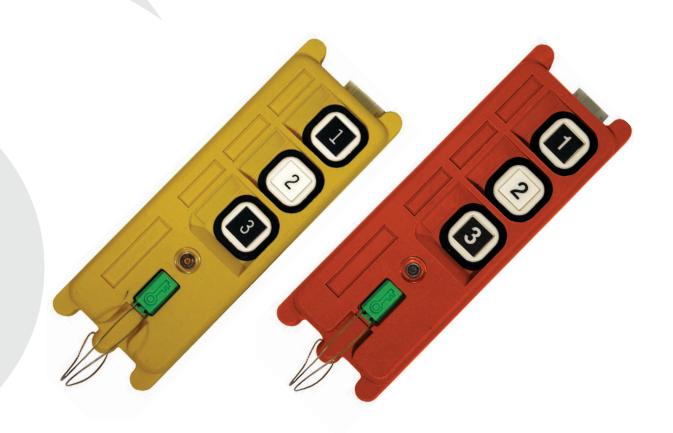
Radio Remote Control Manual Copy Module Series K, L and Protean





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Conductix Incorporated

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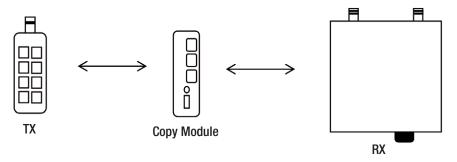
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1.0 Instructions

1.1 Application

After replacing or repairing PC boards in the radio remote control, use the Copier to memorize the existing functions from the old Transmitter (TX) or Receiver (RX). Then download to the new TX or RX fast and efficiently. The Copier can upload/download (respectively) three (3) sets of required functions from/to the TX or RX by buttons 1, 2 or 3.

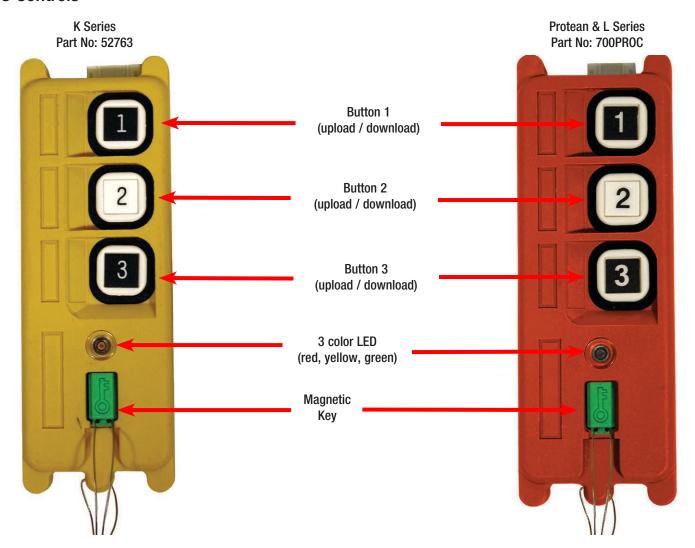
NOTE: When using with the the L40 series radio, only one program can be stored in the copier as the program will consume all the memory regardless of which button is pressed



1.2 Functions Memorized:

The functions that are uploaded/memorized to/from the TX or RX by the Copier include all of function settings, except TX Serial Number, RX Serial Number, TX Date and RX Date.

1.3 Controls



1.0 Instructions

1.4 Precautions

- 1. Copier will not successfully upload/download if the memorized functions are from a different model of radio remote control.
- 2. When using the Copier for copying/memorizing to/from the RX, one must turn off the RX power supply; otherwise it will damage the RX's memory IC (EEPROM).
- 3. Functions must be memorized in the Copier when uploading; otherwise neither the TX nor the RX will work.
- 4. It is normal if the Copier's LED illuminates red when pressing buttons on the Copier to test without being connected to a TX or RX.
- 5. When not in use, please remove the magnetic key from the Copier to save power.
- 6. If the Copier's battery power is insufficient, the Copier's LED will illuminate red, yellow, and green sequentially.
- 7. It is abnormal if the Copier's LED illuminates red when copying, please contact Insul 8 for assistance.

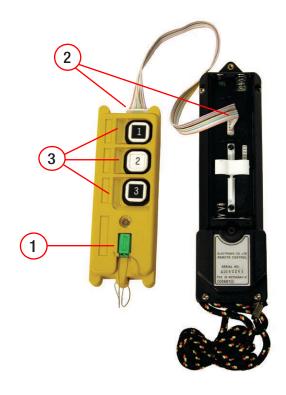
1.5 Battery Installation

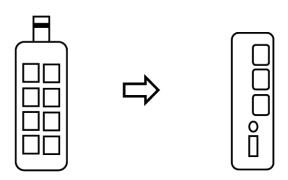
- 1. Unscrew the four (4) screws on the bottom cover of the Copier with a Phillips head screwdriver.
- 2. Open the bottom cover of the Copier and place two (2) AA-size 1.5V alkaline batteries paying attention to their polarity.
- 3. Put the bottom cover on the Copier and tighten the four (4) screws.
- 4. Remove batteries if copier is not to be used for over one (1) week's time to avoid potential damage due to leaking batteries.

NOTE: Copier retains memory without batteries installed.

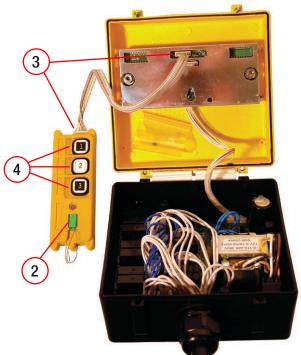
2.0 K1 / K2 Operation

2.1 Procedure for copying / saving program from the TX to the copier

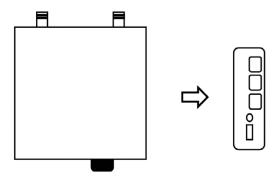




- 2.1.1 Place the Magnetic Key into the Copier (ON).
- 2.1.2 Connect the interface cable from the Copier to the TX.
- 2.1.3 Press and hold one of the Copier's buttons you wish to use for about 5 seconds until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 2.1.4 Unplug the interface cable.



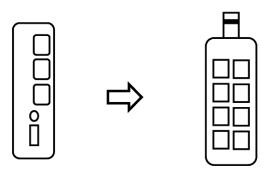
REMARK: After the memorizing is completed, one should remember/ record which button was used to memorize the required functions (in order to press the same button to upload the required functions to the same model of radio remote control).



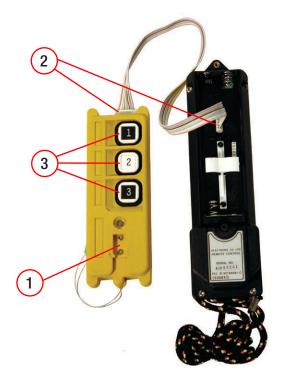
- 2.2.1 Turn off the RX power supply. The RX power supply must be turned off otherwise it will damage the RX's memory IC (EEPROM).
- 2.2.2 Place the Magnetic Key into the Copier (ON).
- 2.2.3 Connect the interface cable from the Copier to the RX.
- 2.2.4 Press and hold one of the Copier's buttons you wish to use, until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 2.2.5 Unplug the interface cable.

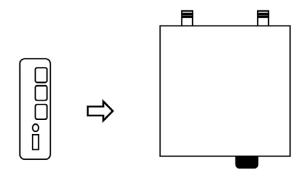
2.0 K1 / K2 Operation

2.3 Procedure for overwriting / replacing program to TX using the copier

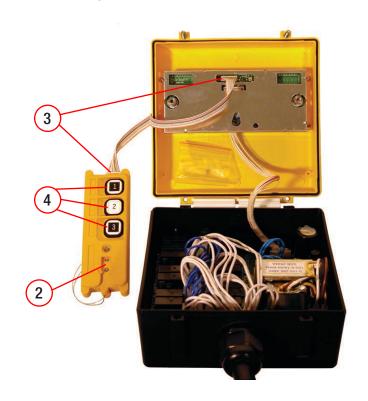


- 2.3.1 Take the Magnetic Key out of the Copier (OFF).
- 2.3.2 Connect the interface cable from the Copier to the TX.
- 2.3.3 Press and hold the Copier's button that was used to memorize the required functions until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 2.3.4 Unplug the interface cable.
- 2.3.5 Programming of the transmitter is now complete.



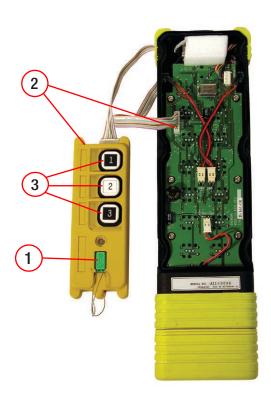


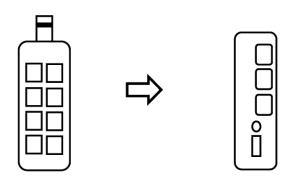
- 2.4.1 Turn off the RX power supply. The RX power supply must be turned off otherwise it will damage the RX's memory IC (EEPROM).
- 2.4.2 Take the magnetic key out of the Copier (OFF).
- 2.4.3 Connect the interface cable from the Copier to the RX.
- 2.4.4 Press and hold the Copier's button that was used to memorize the required functions until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 2.4.5 Unplug the interface cable.
- 2.4.6 Programming of the receiver is now complete.



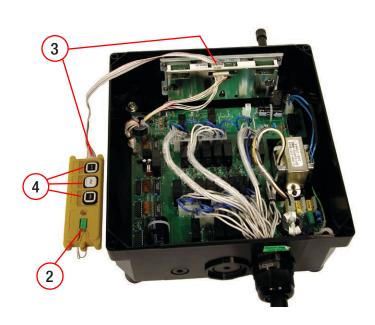
3.0 K3 / K4 Operation

3.1 Procedure for copying / saving program from the TX to copier

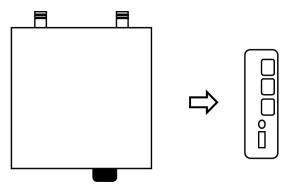




- 3.1.1 Place the Magnetic Key into the Copier (ON).
- 3.1.2 Connect the interface cable from the Copier to the TX.
- 3.1.3 Press and hold one of the Copier's buttons you wish to use for about 5 seconds until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 3.1.4 Unplug the interface cable.



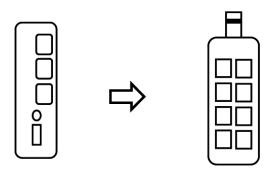
NOTE: After the memorizing is completed, one should remember/ record which button was used to memorize the required functions (in order to press the same button to upload the required functions to the same model of radio remote control).



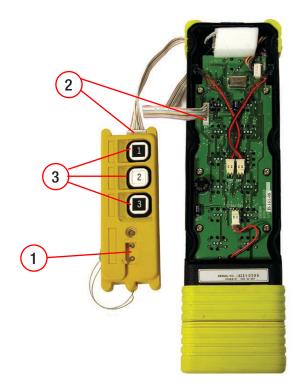
- 3.2.1 Turn off the RX power supply. The RX power supply must be turned off otherwise it will damage the RX's memory IC (EEPROM).
- 3.2.2 Place the Magnetic Key into the Copier (ON).
- 3.2.3 Connect the interface cable from the Copier to the RX.
- 3.2.4 Press and hold one of the Copier's buttons you wish to use, until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 3.2.5 Unplug the interface cable.

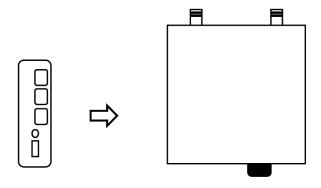
3.0 K3 / K4 Operation

3.3 Procedure for overwriting / replacing program to the TX using the copier

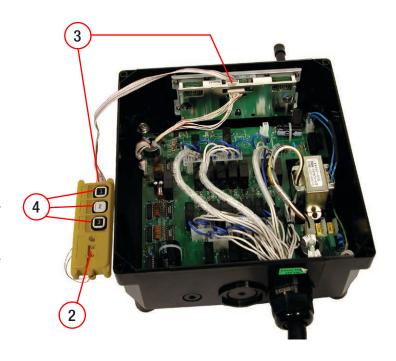


- 3.3.1 Take the Magnetic Key out of the Copier (OFF).
- 3.3.2 Connect the interface cable from the Copier to the TX.
- 3.3.3 Press and hold the Copier's button that was used to memorize the required functions until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 3.3.4 Unplug the interface cable.
- 3.3.5 Programming of the transmitter is now complete.



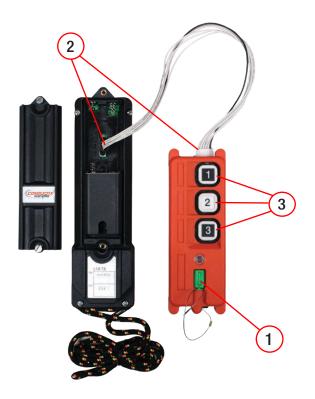


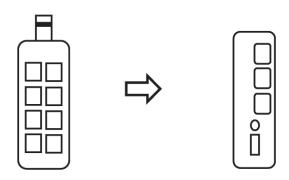
- 3.4.1 Turn off the RX power supply. The RX power supply must be turned off otherwise it will damage the RX's memory IC (EEPROM).
- 3.4.2 Take the magnetic key out of the Copier (OFF).
- 3.4.3 Connect the interface cable from the Copier to the RX.
- 3.4.4 Press and hold the Copier's button that was used to memorize the required functions until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 3.4.5 Unplug the interface cable.
- 3.4.6 Programming of the receiver is now complete.



4.0 L10 Operation

4.1 Procedure for copying / saving program from the TX to the copier

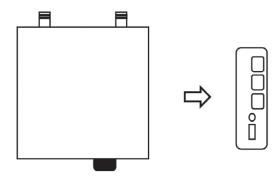




- 4.1.1 Place the Magnetic Key into the Copier (ON).
- 4.1.2 Connect the interface cable from the Copier to the TX.
- 4.1.3 Press and hold one of the Copier's buttons you wish to use for about 5 seconds until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 4.1.4 Unplug the interface cable.



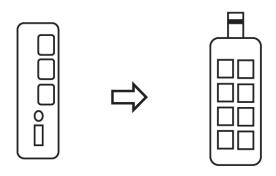
REMARK: After the memorizing is completed, one should remember/ record which button was used to memorize the required functions (in order to press the same button to upload the required functions to the same model of radio remote control).



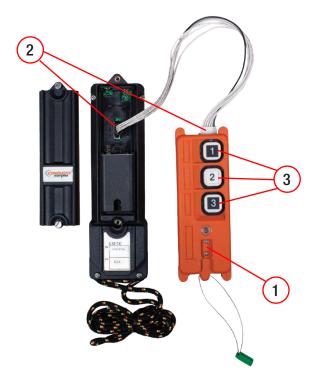
- 4.2.1 Turn off the RX power supply. The RX power supply must be turned off otherwise it will damage the RX's memory IC (EEPROM).
- 4.2.2 Place the Magnetic Key into the Copier (ON).
- 4.2.3 Connect the interface cable from the Copier to the RX.
- 4.2.4 Press and hold one of the Copier's buttons you wish to use, until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 4.2.5 Unplug the interface cable.

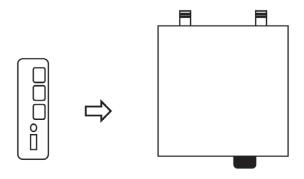
4.0 L10 Operation

4.3 Procedure for overwriting / replacing program to TX using the copier

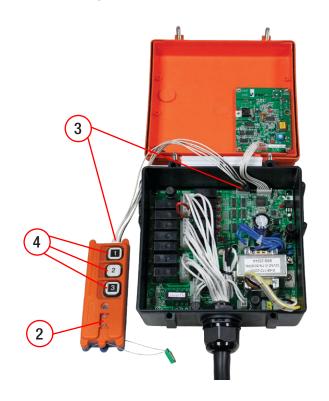


- 4.3.1 Take the Magnetic Key out of the Copier (OFF).
- 4.3.2 Connect the interface cable from the Copier to the TX.
- 4.3.3 Press and hold the Copier's button that was used to memorize the required functions until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 4.3.4 Unplug the interface cable.
- 4.3.5 Programming of the transmitter is now complete.



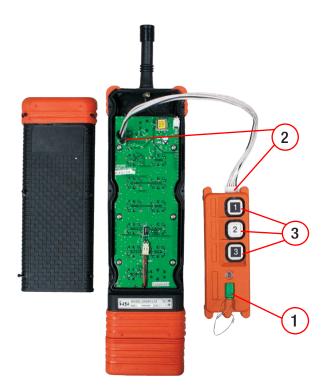


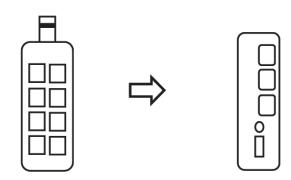
- 4.4.1 Turn off the RX power supply. The RX power supply must be turned off otherwise it will damage the RX's memory IC (EEPROM).
- 4.4.2 Take the magnetic key out of the Copier (OFF).
- 4.4.3 Connect the interface cable from the Copier to the RX.
- 4.4.4 Press and hold the Copier's button that was used to memorize the required functions until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 4.4.5 Unplug the interface cable.
- 4.4.6 Programming of the receiver is now complete.



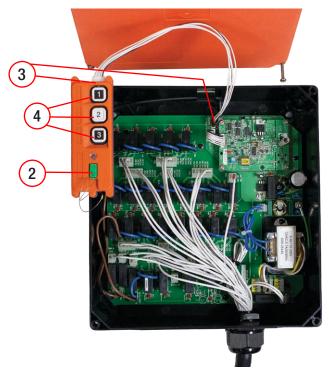
5.0 L12 Operation

5.1 Procedure for copying / saving program from the TX to copier

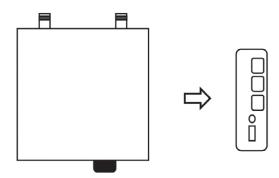




- 5.1.1 Place the Magnetic Key into the Copier (ON).
- 5.1.2 Connect the interface cable from the Copier to the TX.
- 5.1.3 Press and hold one of the Copier's buttons you wish to use for about 5 seconds until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 5.1.4 Unplug the interface cable.



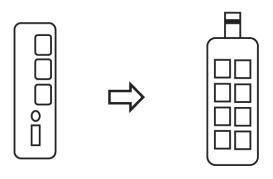
NOTE: After the memorizing is completed, one should remember/ record which button was used to memorize the required functions (in order to press the same button to upload the required functions to the same model of radio remote control).



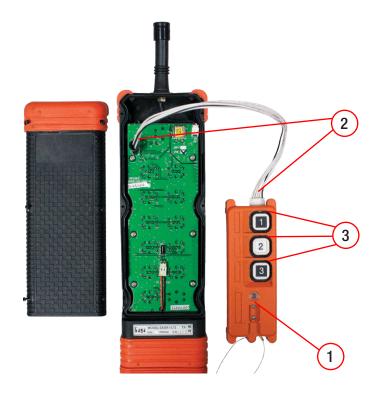
- 5.2.1 Turn off the RX power supply. The RX power supply must be turned off otherwise it will damage the RX's memory IC (EEPROM).
- 5.2.2 Place the Magnetic Key into the Copier (ON).
- 5.2.3 Connect the interface cable from the Copier to the RX.
- 5.2.4 Press and hold one of the Copier's buttons you wish to use, until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 5.2.5 Unplug the interface cable.

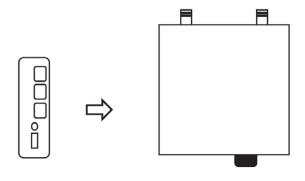
5.0 L12 Operation

5.3 Procedure for overwriting / replacing program to the TX using the copier

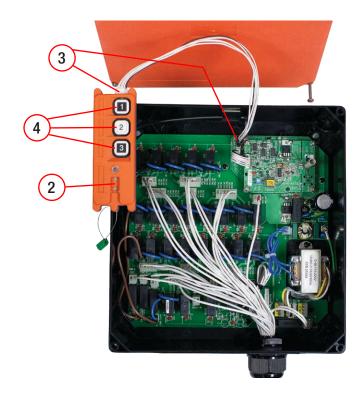


- 5.3.1 Take the Magnetic Key out of the Copier (OFF).
- 5.3.2 Connect the interface cable from the Copier to the TX.
- 5.3.3 Press and hold the Copier's button that was used to memorize the required functions until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 5.3.4 Unplug the interface cable.
- 5.3.5 Programming of the transmitter is now complete.



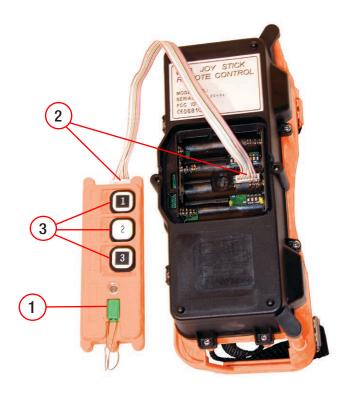


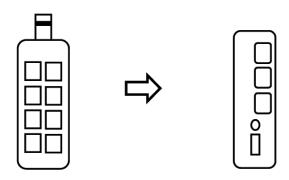
- 5.4.1 Turn off the RX power supply. The RX power supply must be turned off otherwise it will damage the RX's memory IC (EEPROM).
- 5.4.2 Take the magnetic key out of the Copier (OFF).
- 5.4.3 Connect the interface cable from the Copier to the RX.
- 5.4.4 Press and hold the Copier's button that was used to memorize the required functions until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 5.4.5 Unplug the interface cable.
- 5.4.6 Programming of the receiver is now complete.



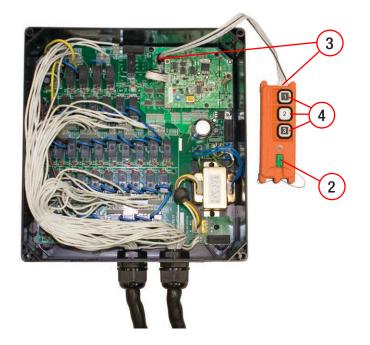
6.0 L40 Series Operation

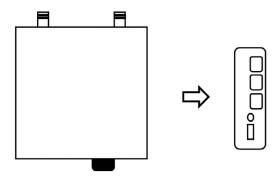
6.1 Procedure for copying / saving program from the TX to the copier





- 6.1.1 Place the Magnetic Key into the Copier (ON).
- 6.1.2 Connect the interface cable from the Copier to the TX.
- 6.1.3 Press and hold one of the Copier's buttons you wish to use for about 20 seconds until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 6.1.4 Unplug the interface cable.

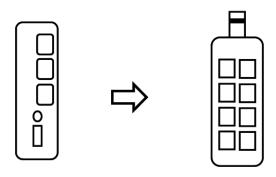




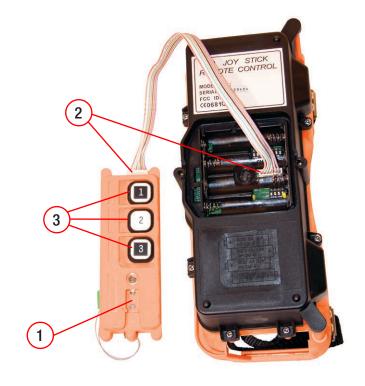
- 6.2.1 Turn off the RX power supply. The RX power supply must be turned off otherwise it will damage the RX's memory IC (EEPROM).
- 6.2.2 Connect the interface cable from the Copier to the RX.
- 6.2.3 Press and hold one of the Copier's buttons wish to use, for about 20 seconds, until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 6.2.4 Unplug the interface cable.

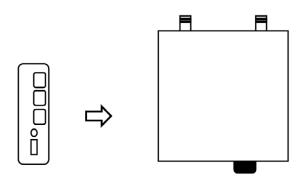
6.0 L40 Series Operation

6.3 Procedure for overwriting / replacing program to the TX using copier



- 6.3.1 Take the Magnetic Key out of the Copier (OFF).
- 6.3.2 Connect the interface cable from the Copier to the TX.
- 6.3.3 Press and hold the Copier's button (for approx. 20 seconds) that was used to memorize the required functions until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 6.3.4 Unplug the interface cable.
- 6.3.5 Programming of the transmitter is now complete.





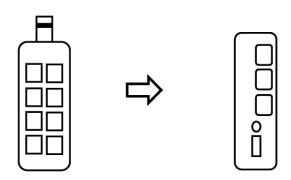
- 6.4.1 Turn off the RX power supply. The RX power supply must be turned off otherwise it will damage the RX's memory IC (EEPROM).
- 6.4.2 Take the magnetic key out of the Copier (OFF).
- 6.4.3 Connect the interface cable from the Copier to the RX.
- 6.4.4 Press and hold the Copier's button (for approx. 20 seconds) that was used to memorize the required functions until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 6.4.5 Unplug the interface cable.
- 6.4.6 Programming of the receiver is now complete.



7.0 Protean Series Operation

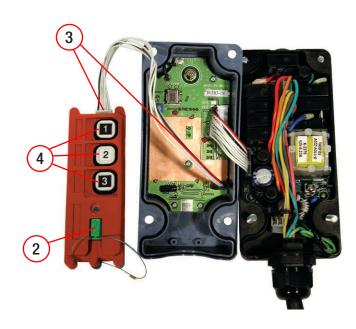
7.1 Procedure for copying / saving program from the TX to the copier



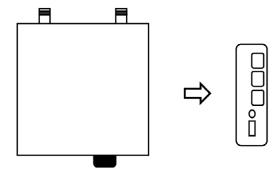


- 7.1.1 Place the Magnetic Key into the Copier (ON).
- 7.1.2 Connect the interface cable from the Copier to the TX.
- 7.1.3 Press and hold one of the Copier's buttons you wish to use for about 5 seconds until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 7.1.4 Unplug the interface cable.

7.2 Procedure for copying / saving program from the RX to the copier



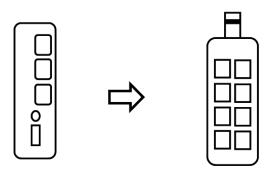
REMARK: After the memorizing is completed, one should remember/ record which button was used to memorize the required functions (in order to press the same button to upload the required function to the same model of radio remote control).



- 7.2.1 Turn off the RX power supply. The RX power supply must be turned off otherwise it will damage the RX's memory IC (EEPROM).
- 7.2.2 Place the Magnetic Key into the Copier (ON).
- 7.2.3 Connect the interface cable from the Copier to the RX.
- 7.2.4 Press and hold one of the Copier's buttons you wish to use, until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 7.2.5 Unplug the interface cable.

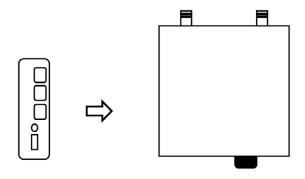
7.0 Protean Series Operation

7.3 Procedure for overwriting / replacing program to the TX using copier

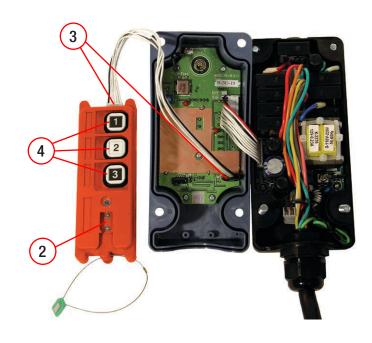


- 7.3.1 Take the Magnetic Key out of the Copier (OFF).
- 7.3.2 Connect the interface cable from the Copier to the TX.
- 7.3.3 Press and hold the Copier's button that was used to memorize the required functions until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 7.3.4 Unplug the interface cable.
- 7.3.5 Programming of the transmitter is now complete.





- 7.4.1 Turn off the RX power supply. The RX power supply must be turned off otherwise it will damage the RX's memory IC (EEPROM).
- 7.4.2 Take the magnetic key out of the Copier (OFF).
- 7.4.3 Connect the interface cable from the Copier to the RX.
- 7.4.4 Press and hold the Copier's button that was used to memorize the required functions until the Copier's LED illuminates green (it is abnormal if the Copier's LED illuminates red).
- 7.4.5 Unplug the interface cable.
- 7.4.6 Programming of the receiver is now complete.



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