KO PROPO® MINI-Z ASF 2.4GHz Setting card instruction manual

This “multi setting adapter” instruction manual will show you how to use, handle and configure the product. Please read the instruction manual thoroughly before using the product. Keep the manual for future reference.

Safety Notice

This product uses electronic parts inside that are used as precision equipment. Abuse and mishandling of the product has the danger of leading to an accident, so be sure to protect and handle this correctly as shown and explained in the following display.

Danger	Warning	Note
Serious injury or death can occur, proceed with caution.	Substantial damage can occur and serious injury or death are a possibility.	Possibility or substantial damage may occur due to an accidental mistake.

Danger Do not try to alter the electronic devise. *Breakdown, electric shock or fire may result. Repairs should only be performed by our service department. This product is used to configure the Mini-Z 2.4GHz and dNano when combined with the multi setting adapter (sold separately). Please note this can only be used with these products. *If used for any other product, damage will occur.

Warning If the smell of smoke is released or becomes abnormally hot, please stop using the product and remove the batteries from the multi setting adapter at once. If product gets wet from chemicals, solvents, etc. or there is deformation of the case, please discontinue use.

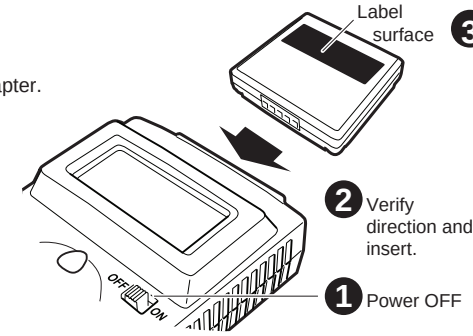
Note Do not insert any foreign materials into this product. *Injury and substantial damage due to ignition and heat generated may result.
Do not leave in a place where there is high temperature. *When the temperature becomes high (above 60°C), the case may deform and cannot be used.
Hard impact or dropping the product may damage the case or electronics, please handle with care.

Our company cannot owe responsibility of the nature of radio control models due to the customer’s result of using the product. Please acknowledge this beforehand.

The setting card is set.

Insert the setting card into the top of the multi setting adapter.

1. Verify that the power switch of the multi setting adapter is set OFF.
2. Verify the direction of the setting card and insert it securely as in the figure to the right.
3. To verify the connection, please turn the power switch on the multi setting adapter to ON. The initial display will verify the connection.



3 Verify initial display with power ON.

Note

Please note, if the setting card does not fit do not push it in. *The setting card and connector may break.

Before removing the connection, please turn OFF the Mini-Z 2.4GHz and the multi setting adapter. Damage may result if not turned off.

Configuration equipment is connected.

1. Prepare the Mini-Z 2.4Ghz and setting adapter with batteries and verify that the power switch is turned OFF.
2. Using the Mini-Z SS ICS connector cable, connect the multi setting adapter and Mini-Z 2.4G.
3. The power switch of the multi setting adapter is turned to ON.
4. While pressing the pairing button of the Mini-Z 2.4GHz, turn ON the power switch. Verify that the LED of the Mini-Z 2.4GHz goes out and comes back on. Once the LED comes back on, it is ready for communication. A mistake in this sequence will not send or receive data. Concerning the location of the LED indicator, please refer to the manual of the Mini-Z 2.4GHz.

MINI-Z ASF 2.4GHz Setting Card

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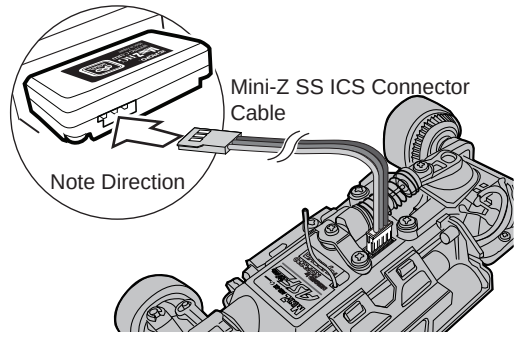
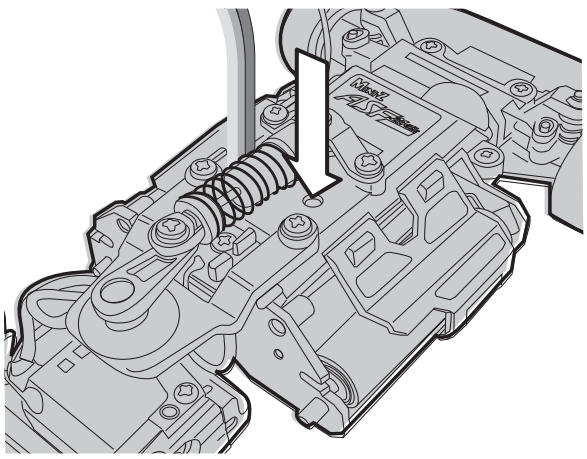
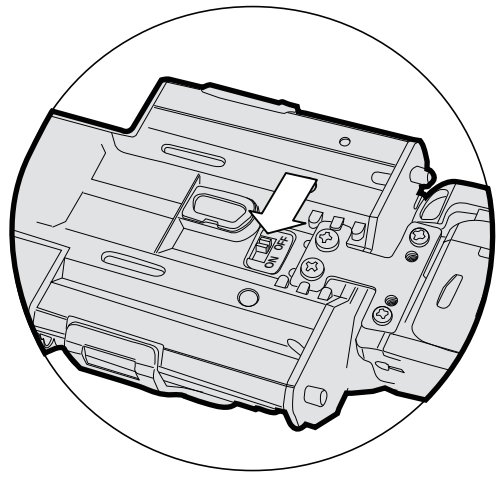


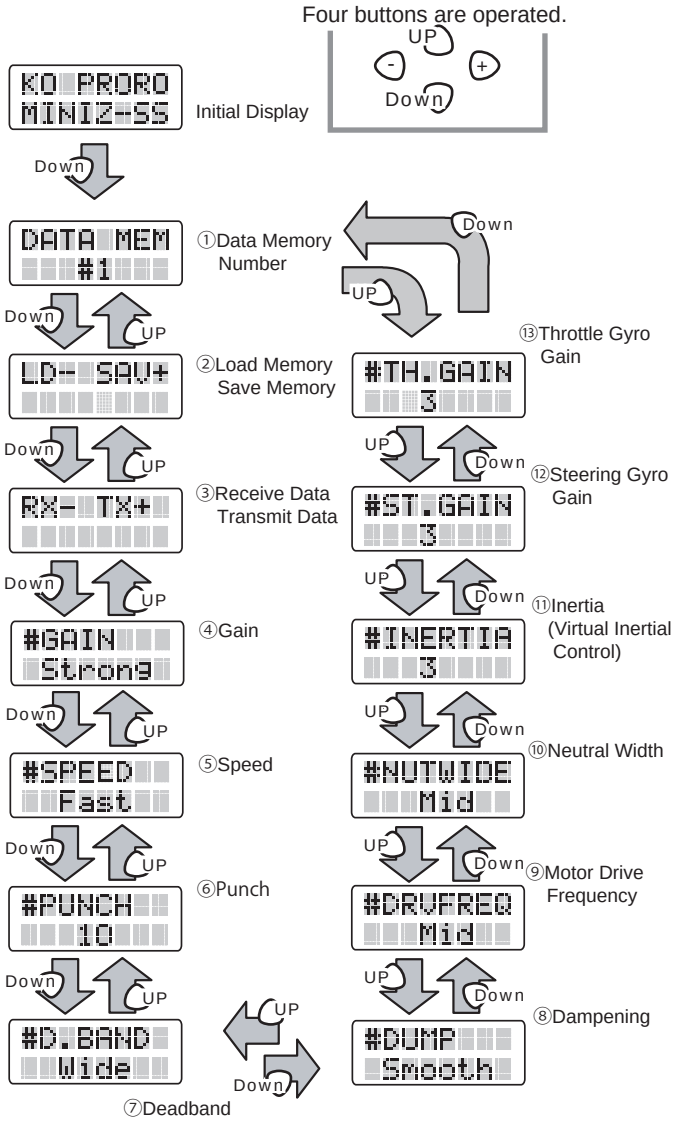




5. The following page show a flowchart for reference, for receiving data press RX−⊖, please press OK to verify the display.
   When NG is displayed, please start over from step 1.

Note Please note, do not insert the Mini-Z SS ICS cable incorrectly.
*The connector and the equipment might break.

Configuration Flowchart



Name and function of each parameter

①Data Memory Number
The memory data specified is loaded and saved to the setting card. Eight memory data (1~8) can be retained.

②Load Memory / Save Memory
Press and hold the minus key to load (LD-) the saved data. Press and hold the plus key to save (SAV+) the data. Hold the key until OK is displayed.

③Receive Data / Transmit Data
Press and hold the minus key to receive (RX-) data to the devise. You must save the data to keep it in the setting card. Press and hold the plus key to transmit (TX+) the data on devise to the Mini-Z. Hold the key until OK is displayed.

④Gain (# GAIN)
Holding property of the steering servo is changed. Using the +/- keys, you can adjust the 3 strengths (Min, Mid, Strong). This changes the strength that the servo will keep its position.

⑤Speed (#SPEED)
Change the operational speed of the steering servo. Using the +/- keys, you can adjust the 5 speeds (Slow, 2, 3, 4, Fast).

⑥Punch (#PUNCH)
Change the rate of reaction of the initial movement of the steering servo. Using the +/- keys, you can adjust the punch with 10 different settings from 1 (Low) to 10 (High). When the setting is low, the movement is similar to an analog servo. Adjust to gain the proper control for your settings.

⑦Deadband (#D.BAND)
Configure the width of the neutral zone of the steering servo. Using the +/- keys, you can adjust the 3 widths (Narrow and Wide).

⑧Dampening (#DUMP)
Change the property of the steering servo when it comes back to neutral. Using the +/- keys, you can set it to Smooth or Over. Smooth setting rolls the servo back to neutral and the Over setting applies a brake before returning to neutral, but the movement remains unchanged.

⑨Motor Drive Frequency (#DRVFREQ)
Motor drive frequency of the throttle is changed. Using the +/- keys, you can adjust the 3 drive frequency settings. Mini-Z settings are 1.2/2.5/5.0KHz and d-nano settings are 1.1/2.3/4.8KHz. A low frequency increase torque but decreases runtime and a high frequency gives more runtime.

⑩Neutral Width (#NUTWIDE)
The width of the neutral zone of the throttle trigger can be adjusted. Using the +/- keys, you can configure 3 different widths Narrow, Mid and Wide.

⑪Inertia (#INERTIA)
Adjust the forward movement once the throttle is released. The 5 settings are Strong, 2, 3, 4 and OFF. A setting of Strong slows the car's roll the quickest and OFF allows the car to roll.

⑫Steering Gyro Gain (#ST.GAIN)
The effectiveness of the steering gyro for the d-nano is adjusted. Using the +/- keys, you can adjust the 5 phases OFF, 2, 3, 4 and Strong. The Strong setting will produce the most steering correction by the gyro. Cannot be used with Mini-Z.

⑬Throttle Gyro Gain (#TH.GAIN)
The effectiveness of the throttle gyro for the d-nano is adjusted. Using the +/- keys, you can adjust the 5 phases OFF, 2, 3, 4 and Strong. The Strong setting will produce the most thorttle correction by the gyro. Cannot be used with Mini-Z.

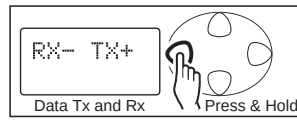
Changing the Mini-Z/d-nano Configuration

Loading Procedure First load the configuration data (Receive Data) as shown in the display to the right. Once loaded, the Mini-Z configuration can be changed and loaded (Transmit Data) to the car with the multi setting adapter.

❶ Connection
All power sources are turned OFF. Insert the setting card into the multi setting adapter and connect the Mini-Z to the setting card using the connector cable.

❷ Turn ON the power sources
Referencing to page 1, turn on the power switch of the multi setting adapter then while pushing the pairing button, turn on the switch of the Mini-Z.

❸ Receiving
Change the display to the data transmit and receive screen to transfer the data.



Press and hold the minus key (RX-) to receive the data.

After receiving the data, each configuration value that is currently stored in the Mini-Z/d-nano can be displayed.

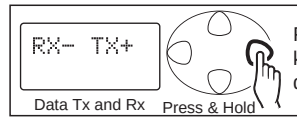
*The currently displayed data will be erased when the setting adapter is turned OFF.
To save the displayed data, please save it to the setting card memory.
(To save data, please refer to "Save Data" shown below.)

To change the display screen, press the UP or DOWN keys and use the plus or minus keys to change setting values.

Writing Procedure
*Changes to the settings will not be updated until you transmit the setting to the Mini-Z/d-nano.

❶ Data Displayed
Referencing to page 1, connect all equipment to prepare the transmission of the displayed data.

❷ Transmission
Change the display screen to the data transmit and receive screen.

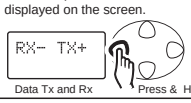


Press and hold the plus key (TX+) to transmit the data to the Mini-Z 2.4GHz.

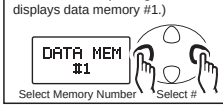
Save Data

Save your settings to the memory as a backup before transmitting the new settings.

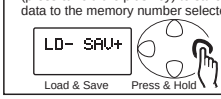
❶ Receiving Data
Press and hold the minus key (RX-) to receive data from the Mini-Z. Once completed, OK will be displayed on the screen.



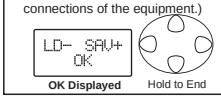
❷ Selecting Data Memory
Select the data memory number you wish to save to. (The figure below displays data memory #1.)



❸ Save Data
Change the display screen to the Load and Save screen and select SAV (press & hold the plus key) to save the data to the memory number selected.



❹ Save Completion
When OK is displayed, save has completed. (When NG is displayed, verify the power source and connections of the equipment.)

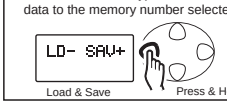


Load Data

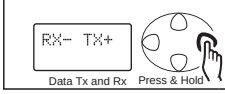
Load your settings from the memory data to transmit to the Mini-Z.

❶ Selecting Data Memory
Select the data memory number you wish to load. (The figure below displays data memory #1.)

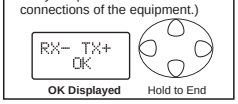
❷ Load Data
Change the display screen to the Load and Save screen and select LD (press & hold the minus key) to save the data to the memory number selected.



❸ Transmit Data
Press and hold the plus key (TX+) to transmit the data from the setting card to the Mini-Z.



❹ Transmission Completion
When OK is displayed, transmission has completed. (If NG is displayed, verify the power source and connections of the equipment.)



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