

# TACTIC™

## TTX410, TTX610, TTX810 Radio Mode Changes

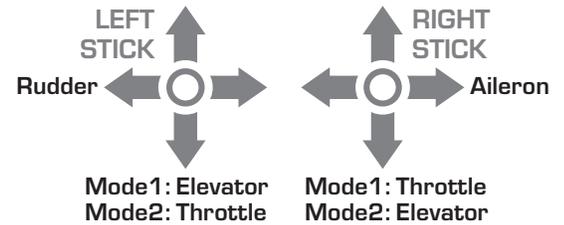
These instructions describe how to change the stick mode on Tactic brand TTX410, TTX610, and TTX810 transmitters. Changing modes requires mechanical adjustments inside the transmitter and electronic configuration changes. Failure to follow these instructions properly can result in permanent damage to the Tx and void the warranty. Contact Hobby Services if you do not feel comfortable making such adjustments without damaging the radio.



For safe operation and best results, it's strongly recommended to read these instructions completely before use.

These Tactic radios can be changed between stick mode 2 and stick mode 1. Most radios for use in the United States are produced with stick mode 2 configuration. The diagram here shows the difference between the two modes. The locations of the aileron and rudder controls are the same for radios on mode 2 and mode 1. However, the locations of the throttle and elevator controls will alternate when changing between mode 2 and mode 1. Throttle is on the left stick for mode 2, but on the right for mode 1.

### NORMAL STICK CONFIGURATIONS



## ELECTRONIC STICK MODE CHANGE – MODE 2 TO MODE 1

Follow these steps to change the radio's electronic configuration from mode 2 to mode 1:

1. With charged batteries inside the Tx, start with the Tx power switch in the OFF position.
2. Press the up/down trim button on the RIGHT gimbal to the up direction and HOLD in this position.
3. Turn the Tx power switch to the ON position. The Tx should sound a unique set of beeps very rapidly (one high and three low tones) to indicate the throttle control has moved to the right stick and right trim lever, and the elevator control has moved to the left stick and left trim lever.
4. With the transmitter linked to a Tactic receiver and servos connected to channels 2 and 3, make sure both the stick and trim controls were swapped for the throttle and elevator controls.
5. Turn the Tx power switch off, then back on to confirm the radio held the stick mode change.
6. If the controls for the throttle and elevator channels did not alternate repeat steps 1-4 above.



## ELECTRONIC STICK MODE CHANGE – MODE 1 TO MODE 2

Follow these instructions to change the radio's electronic configuration from mode 1 to mode 2:

1. With charged batteries inside the Tx, start with the Tx power switch in the OFF position.
2. Press the up/down trim button on the LEFT gimbal to the up direction and HOLD in this position.
3. Turn the Tx power switch to the ON position. The Tx should sound a unique set of beeps very rapidly (one high, and three low tones) to indicate the throttle control has moved to the left stick and left trim lever, and the elevator control has moved to the right stick and right trim lever.
4. With the transmitter linked to a Tactic receiver and servos connected to channels 2 and 3, make sure both the stick and trim controls were swapped for both the throttle and elevator controls.
5. Turn the Tx power switch off, then back on to confirm the radio held the stick mode change.
6. If the controls for the throttle and elevator channels did not alternate repeat steps 1-4 above.



# MECHANICAL STICK MODE CHANGE



**WARNING!** Mechanical alterations on the Tactic TTX410, TTX610, and TTX810 radios require opening the transmitter case. Failure to follow all instructions below can result in permanent damage to the transmitter and void the warranty. Contact Hobby Services if you do not feel comfortable that you can safely and accurately perform these steps.

## Case Separation and Disassembly



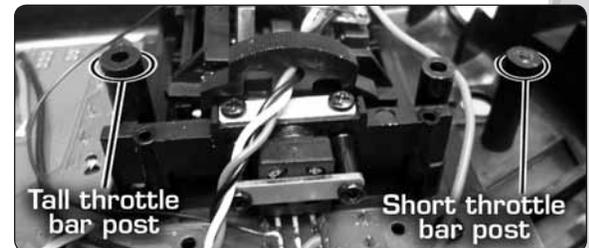
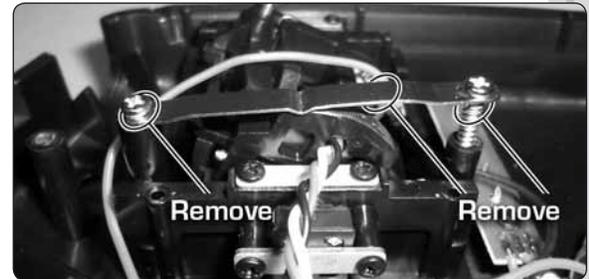
**1. Make sure to first remove all batteries from the battery compartment! Failure to do so could result in permanent damage to the radio and void the warranty.**

2. Remove the six screws from the back of the Tx case. Put the screws in a safe place for later use.
3. Carefully separate the case rear away from the case front and note exactly how all wires are routed inside the case. Taking a picture of the wires in place may be helpful for re-assembling the case later. Do not disconnect wires from the pc board.
4. Carefully lay the radio face-down on a soft, non-abrasive surface, with the case rear opened to expose the inside of the radio.



## Throttle Ratchet Bar

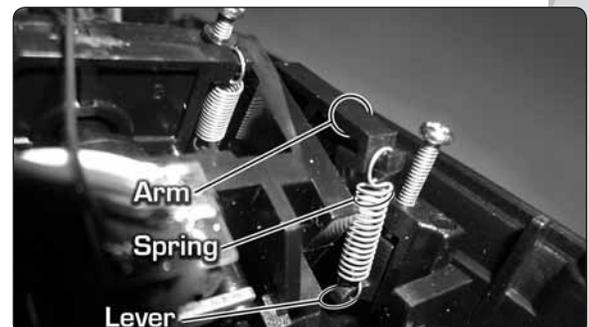
1. A long metal bar will be installed vertically across the rear of one gimbal. This bar provides resistance and a ratchet feel for the throttle control. Note the small detent in the middle of the bar, and the tip of this detent points towards the gimbal. Two mounting screws hold the bar into place. One screw will be inserted fully into the taller mounting post. The other screw will be partially inserted into the shorter mounting post, to function as a tension adjustment for the throttle stick. Note the depth at which this screw is inserted prior to removal. Remove both screws and the ratchet bar from this gimbal.
2. Position the throttle ratchet bar onto the mounting posts for the opposite gimbal, making sure the detent in the bar points at the gimbal. Install one screw fully (don't over-tighten) into the taller mounting post. Install the second screw partially in the shorter mounting post, to a depth similar to when it was removed to provide adequate tension for this stick.



## Elevator Arm and Spring Removal

*The gimbal now with the metal throttle ratchet bar will still have a plastic arm and spring for the vertical movement of the stick. The arm and spring must be removed from this gimbal and moved to the other gimbal.*

1. With a pair of hemostats or needle-nose pliers, carefully grasp the loop end of the spring and slide it off the end of the arm.
2. Lower the spring to slide the opposite loop end off the lever located downward inside the gimbal assembly. Set the spring aside.

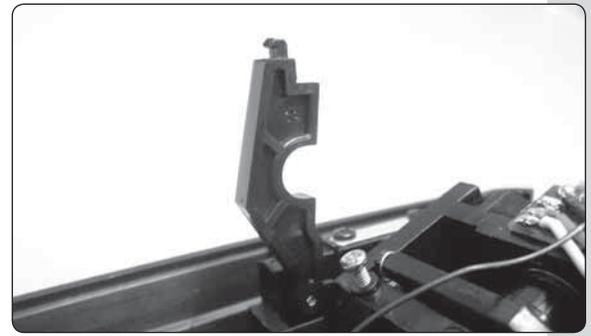


3. Rotate the plastic arm vertically, then slide the arm off of its mounting pin and set aside.

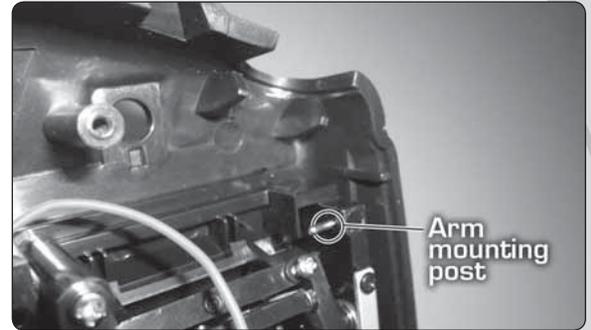
## Elevator Arm and Spring Installation

*The plastic arm and spring must be installed onto the opposite gimbal (which doesn't have the metal throttle ratchet arm).*

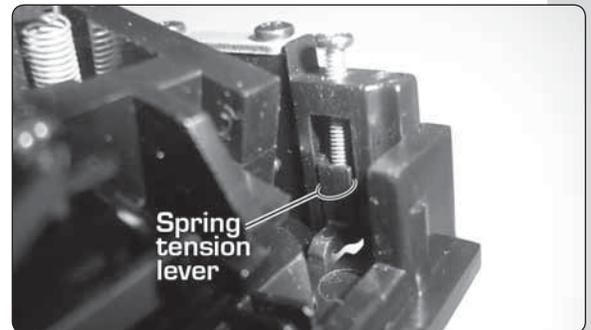
1. Slide the arm onto the arm mounting post, then rotate the arm downward over the gimbal.



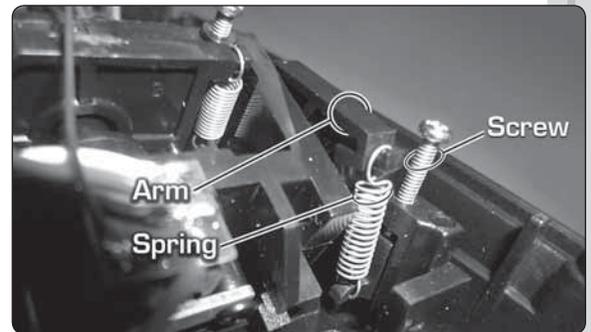
2. Using hemostats or needle-nose pliers, grasp one loop end of the spring and hook the opposite loop end of the spring onto the spring tension lever down inside the gimbal.



3. Pull the spring upward and hook the top loop end onto the elevator arm, and release.



4. Adjust the spring tension screw until the desired tension exists for the vertical movement of this stick.



## Case Assembly

1. Carefully tuck all cables back inside as when the case was opened.
2. Align the case rear back onto the case front, **making sure that no wires are pinched between the case parts**. Press the case halves together.
3. Insert the six screws back into their positions and carefully tighten until snug. Do not cross the threads or over-tighten the screws.
4. Re-install batteries inside the battery compartment and close the battery door. Test all mechanical and electronic changes for proper operation.

*Mode change is complete. Contact Hobby Services if questions as follows:*

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