

## Remote Launch Control System Setup

For UXO CF5

## Remote Launch Control System Setup Procedure

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	This document contains the following:
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	Outside System Checks
	Required Items
	Things you'll need to perform this procedure
L	$\Box$ Client Side Box (yellow pelican case)
2	☐ Tower Side Box (silver briefcase thing)
3	☐ Three (3) Lithium Polymer 12V batteries
1	☐ Multimeter (for troubleshooting)
5	☐ Electrically actuated valve for inside setup
	Inside Setup
	Do what you can inside to keep yourself from frostbite as much as possible.
L	$\ \square$ Put two LiPo batteries in tower side box, in the white 3d printed battery holders.
2	$\square$ Make sure the actuator switch is off (big black one with a 1 and 0 painted on it), clicked to "0".
3	$\square$ Plug in both batteries. Lights on arduino should light up, relays should click.
1	$\hfill\Box$ Wire electric valve into the connector labelled fill on the tower side box.
)	$\Box$ Turn on actuator switch (the black one on the tower side box):
5	$\ \square$ If remote valve previously wasn't closed, it should now close. If not, go to troubleshooting guide.
7	$\Box$ Put battery in client side box. It plugs into the deans connector underneath the cutout, and isn't secured to anything.
3	☐ Turn on client side box (flip power switch).
)	☐ Confirm that LCD lights up.
)	☐ Turn keyswitch 90 degrees clockwise.
L	☐ Confirm that missile switches light up.
2	☐ Flip <b>Fill</b> missile switch
3	☐ Confirm that Electrically actuated valve turns to open
1	☐ Unflip <b>Fill</b> missile switch
5	☐ Confirm that Electrically actuated valve turns to close
ō	☐ Disconnect electrically actuated valve from RFV relay board
	End inside checks

	Outside setup
1	$\square$ Find a good spot to put the tower side box. Put the tower side box there
2	$\ \square$ Connect remote fill valve to the connector labelled Fill on the tower side box
3	$\hfill \square$ Connect remote vent valve to the connector labelled Vent on the tower side box
4	$\ \square$ Connect injector valve to the connector labelled Disconnect on the tower side box
5	□ Perform "Outside Checks" Procedure
6	$\ \square$ Disconnect both LiPos in tower side box to conserve power
7	$\square$ Turn off client side box to conserve power
	End of setup procedure
	Outside Checks
	Perform during outside setup procedure and again immediately before test
1	☐ Turn on client side box (Ensure LCD lights up)
2	☐ Turn key switch (Ensure missile switches light up)
3	☐ Turn on tower side box actuator switch
4	$\ \square$ Confirm that all three electrically actuated valves are closed
5	☐ Flip Fill missile switch
6	$\square$ Confirm that remote fill valve opened
7	☐ Un-flip <b>Fill</b> switch
8	$\square$ Confirm that remote fill valve closed
9	☐ Flip Tank Vent missile switch
LO	$\square$ Confirm that remote vent valve opened
11	☐ Un-flip <b>Tank Vent</b> switch
12	$\ \square$ Confirm that remote vent valve closed
13	☐ Flip <b>Disconnect</b> missile switch
L4	$\square$ Confirm that injector valve opened
15	☐ Un-flip Disconnect switch
16	$\square$ Confirm that injector valve closed

End of Checks procedure