Instructions for Changing the Trigger in exp 09042

1) If you don't know what you're doing, don't change the trigger.
2) The master trigger logic is in Rack 3 (far right rack), Crate C. All locations refer to this crate.
3) Only two cables need to be moved to change the trigger.
4) First, decide if LASSA will be in the readout.
   a. If so, plug the cable labeled "comp trigger" into slot 9, section 3, output Y. This is labeled "complete -> comp trig".
   b. If not, plug the cable labeled "comp trigger" into slot 9, section 1, output Y. This is labeled "master".
5) Make sure the other end of the cable labeled "comp trigger" is still in the input to the computer trigger latch, slot 12, section 1. This should never move.
6) Next, decide what the trigger condition will be. This may be pulser, FA+MB, CsI OR, etc.
7) Find the location where that trigger option is located on the attached diagram of the bin. Trigger options are located in slots 4-8. If a section is labeled "unblocked", don't use that section. Instead use the same trigger "live" in slot 8.
8) Plug the cable labeled "master trig", which has two colored paper tape "flags" on it, into the output of the trigger you selected above.
9) Make sure the other end of the cable labeled "master trig" is still plugged into the input of slot 9, section 1, which is labeled "master". This should never move.

Rack 3.C Master logic 10/5/09

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FIFO 2×8	FIFO 4×4	FIFO 4×4	QDG-6	Logic Box Coinc Unit	QDG-6	FIFO 4×4	Latch
prompt trig master							
→ master							
↓	FA submaster = FA OR	NW submaster = NW OR 350 ns	xFA wide	FA+NW	pulser trigger live Y: comp trigger 40 ns	Master trigger X: prompt 20 ns 14 Y: comp trigger 40 ns	Computer trigger Latch
Master write busy	MB submaster = MB multiplicity	LASSA or NW may Do mult not fire Use	X: MB wide 300 ns	FA+MB	delayed master X: 134 ns Y: comp busy latch	comp busy	
↓	LASSA Si submaster (unblocked) = LASSA OR	CsI OR Y: delayed LASSA	X: 120 ns Y: delayed LASSA	CsI OR live	complete → comp trig st: LASSA complete X: 10 ns Y: comp trig	Pulser trig ready	
	LASSA complete	LASSA or NW X: 300 ns	Si OR X: 300 ns	Si + $\overline{MB}$			
				Si OR + Master	Pulser trig (unblocked) X: 500 ns Y: output		Computer busy latch
2	4	5	6	7	8	9	10
							12