Yuma FBV polarities			
Boards Rev. 4.00 9-15-2014			
It is customary for upward ground motion (downward boom			
General Rule for U7:			
When the capacitance to U7-13 increases, U7-8 goes + When			
the capacitance to U7-7 increases, U7-8 goes -			
Locate +UP wire on d	isconnected coil/	magnet.	
Boom moved up	+UP goes	+	
Boom moved down	+UP goes	-	
Circuit boards Rev. 4.00	9-15-2014 JP5	1-2 Defaul	t Config.
Feedback Lo	рор	Output Ar	nplifiers
Ground moves	up		
Boom moves	down		
Bottom sensor plate Cb	decreases		
10 J3-3 and J2-3 Ch to 12-3 and 117-13	docroasos		
UD to 02-5 and 07-15	uecieases		
115-3	-	1124-2	
P2-1	+	U2A-2	+
I/_1 and Actuator LLIP	+	U2R-1	-
Coil force on boom	+		+
	//////////////////////////////////////	HI + Oul	\////// / */////////////////////////////
Circuit boards Rev. 4.00 9-15-2014 JP5 2-3 Old config.			
Feedback Loop		Output Ar	nplifiers
Ground moves	up		
Boom moves	down		
Bottom sensor plate Cb	decreases		
Cb to J2-4 and U7-7	decreases		
U7-8 and U1A-3	+		
U1A-1	+		
U5-3	-	U2A-2	+
P2-1	-	U2A-1	-
J4-1 and Actuator -UP	-	U2B-7	+
Coil force on boom	up	Hi + Out	*
To achieve the proper output polarity, the wires connecting J2 and J3 pins 3 and 4 should be reversed so that J2-3 goes to J3-			
4 and J2-4 goes to J3-3			
Then, to maintain negative feedback polarity and avoid			
oscillation, J4-1 should go to Actuator -UP wire.			



