



Title: **Boolean Logic**

Job: 3

Course: Intro to Automation

Unit: Manual Motor Control

CLO: 2

Name _____ Grade _____ Date _____

Objectives

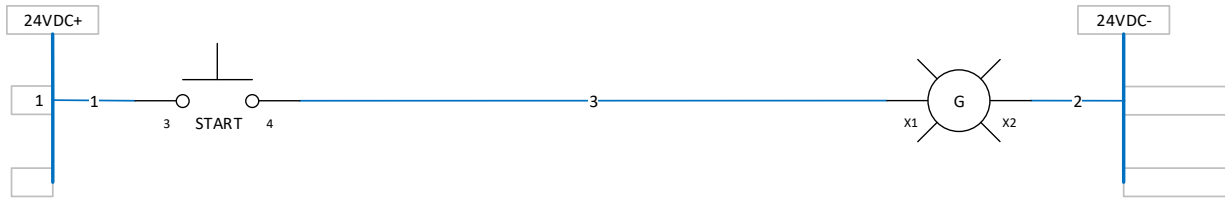
1. Student shall identify EQUAL, AND, OR, NOT, NAND, NOR logic circuits.
2. Student shall recognize symbols and operators as they relate to boolean logic equations.
3. Student shall translate a Boolean logic formula into a logical wired circuit.
4. Student shall assess Boolean logic examples on a live circuit.

Assessment

Students shall demonstrate a comprehension of the objectives listed above by scoring a minimum of 75% on this Job. Grading shall be based on an answer key.

Instructions

Wire each example shown below. Energize the circuit and complete the associated truth table.



START	G

1. What type of logic is represented in this circuit? _____
2. Write the formula that represents this circuit? _____

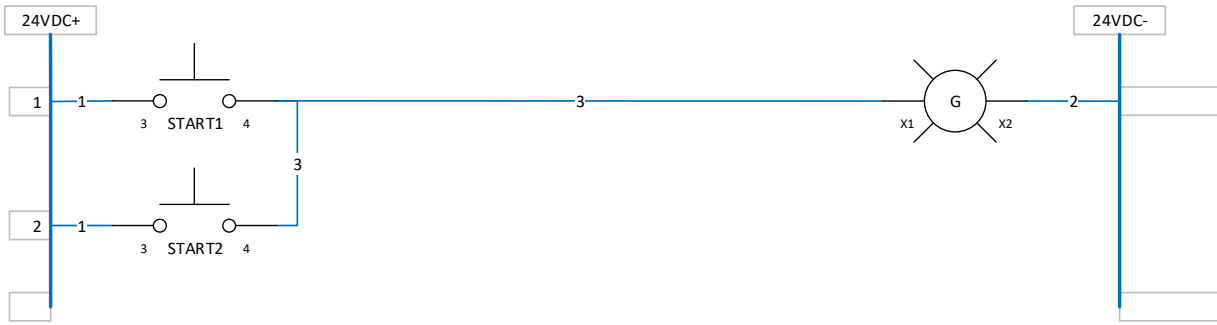


START1	START2	G

3. What type of logic is represented in this circuit? _____
4. Write the formula that represents this circuit? _____

Instructions

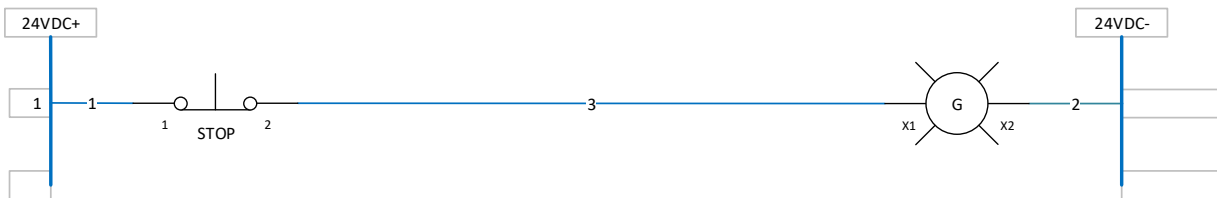
Wire each example shown below. Energize the circuit and complete the associated truth table.



START1	START2	G

5. What type of logic is represented in this circuit? _____

6. Write the formula that represents this circuit? _____



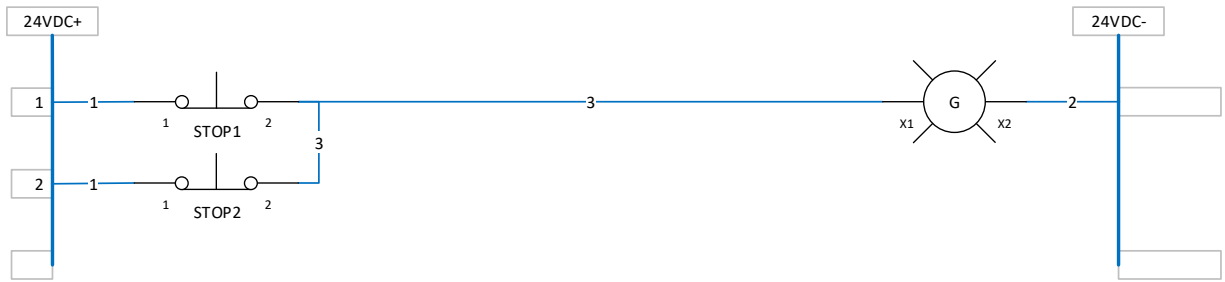
STOP	G

7. What type of logic is represented in this circuit? _____

8. Write the formula that represents this circuit? _____

Instructions

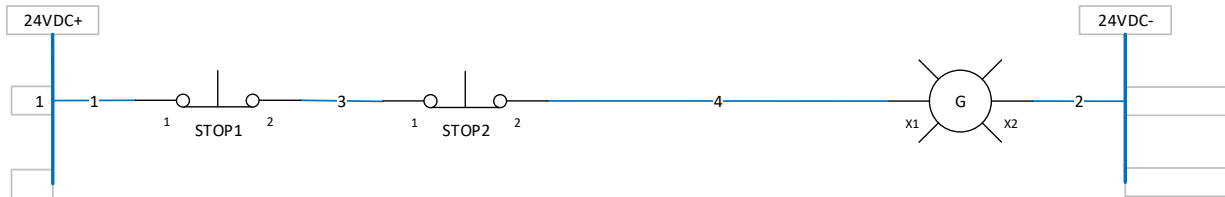
Wire each example shown below. Energize the circuit and complete the associated truth table.



STOP1	STOP2	G

9. What type of logic is represented in this circuit? _____

10. Write the formula that represents this circuit? _____



STOP1	STOP2	G

11. What type of logic is represented in this circuit? _____

12. Write the formula that represents this circuit? _____

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