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| Garage Door Toggle Close | |
| Description: | This will test the garage door going from an “Open” state to a “Closed” state. First make sure the garage door is in an “Open” state. This can be accomplished by interrupting the object sensors connected to the garage door.   * Connect to the arduino using the Arduino Serial Monitor. * Enter “0” and then press “Send” in the Serial Monitor. * Wait ten (10) seconds. * Press the “Close” sensor. * Enter “1” and then press “Send” in the Serial Monitor. |
| Expected Result: | Current State 2. |
| Actual Result: |  |
| Pass/Fail: |  |

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| Garage Door Toggle Open | |
| Description: | This will test the garage door going from a “Closed” state to an “Open”. First make sure the garage door is in a “Closed” state. This has been tested by the previous unit test.   * Enter “0” and then press “Send” in the Serial Monitor. * Wait ten (10) seconds. * Press the “Open” Sensor. * Enter “1” and then press “Send” in the Serial Monitor. |
| Expected Result: | Current State 0. |
| Actual Result: |  |
| Pass/Fail: |  |

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| Garage Door Closing State | |
| Description: | This will test the garage door going from an “Open” state, to a “Closing” state, and then to a “Closed” state. First make sure the garage door is in an open state.   * Enter “0” and then press “Send” in the Serial Monitor. * Immediately enter “1” and then press “Send” in the Serial Monitor. * Wait ten (10) seconds. * Press the “Close” Sensor. * Enter “1” and then press “Send” in the Serial Monitor |
| Expected Result: | Current State 3, and then Current State 2. |
| Actual Result: |  |
| Pass/Fail: |  |

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| Garage Door Opening State | |
| Description: | This will test the garage door going from a “Closed” state, to an “Opening” state, and then to an “Open” state. First make sure the garage door is in a “Closed” state.   * Enter “0” and then press “Send” in the Serial Monitor. * Immediately enter “1” and then press “Send” in the Serial Monitor. * Wait ten (10) seconds. * Press the “Open” Sensor. * Enter “1” and then press “Send” in the Serial Monitor. |
| Expected Result: | Current State 1, and then Current State 0. |
| Actual Result: |  |
| Pass/Fail: |  |

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| Garage Door Partial State | |
| Description: | This will test the garage door going from a “Closed” state, to a “Opening” state, to a “Partial” state. First make sure the garage door is in a “Closed” state.   * Enter “0” and then press “Send” in the Serial Monitor. * Within ten (10) seconds, enter “0” and then press “Send” in the Serial Monitor. * Enter “1” and then press “Send” in the Serial Monitor. |
| Expected Result: | Current State 4. |
| Actual Result: |  |
| Pass/Fail: |  |

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| Garage Door Partial State to Closed State | |
| Description: | This will test the garage door going from a “Partial” state, to a “Closing” state, to a “Closed” state. First make sure the garage door is in a “Partial” state.   * Enter “0” and then press “Send” in the Serial Monitor. * Immediately enter “1” and then press “Send” in the Serial Monitor. * Wait ten (10) seconds. * Press the “Close” sensor. * Enter “1” and then “Send” in the Serial Monitor. |
| Expected Result: | Current State 3, and Current State 2. |
| Actual Result: |  |
| Pass/Fail: |  |

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| Garage Door Opening with Interrupt | |
| Description: | This will test the garage door going from a “Closed” state, to an “Opening” state, to an “Open” state, with an object placed in the door. First make sure the garage door is in a “Closed” State.   * Enter “0” and then press “Send” in the Serial Monitor. * Immediately enter “1” and then press “Send” in the Serial Monitor. * Place an object between the “object in the door” sensors. * Immediately enter “1” and then press “Send” in the Serial Monitor. * Wait ten (10) seconds. * Press the “Open” sensor. * Enter “1” and then press “Send” in the Serial Monitor. |
| Expected Result: | Current State 3, then Current State 3, and then Current State 2. |
| Actual Result: |  |
| Pass/Fail: |  |

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| Garage Door Closing with Interrupt | |
| Description: | This will test the garage door going from an “Open” state, to a “Closing” state, to an “Open” state, with an object placed in the door. First make sure the garage door is in an “Open” state.   * Enter “0” and then press “Send” in the Serial Monitor. * Immediately enter “1” and then press “Send” in the Serial Monitor. * Place an object between the “object in the door” sensors. * Immediately enter “1” and then press “Send” in the Serial Monitor. * Wait ten (10) seconds. * Press the “Open” sensor. * Enter “1” and then press “Send” in the Serial Monitor. |
| Expected Result: | Current State 3, then Current State 1, and then Current State 0. |
| Actual Result: |  |
| Pass/Fail: |  |