State Table

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| # | State Name | Outputs | | Inputs ([ped][spring][main]) | | | | | | | |
| Main/Spring | Ped | 000 | 001 | 010 | 011 | 100 | 101 | 110 | 111 |
| 1 | goMain | 001100 | Red | goMain | goMain | waitMainToSpring | waitMainToSpring | waitMainToPed | waitMainToPed | waitMainToPed | waitMainToPed |
| 2 | waitMainToSpring | 010100 | Red | goSpring | | | | | | | |
| 3 | waitMainToPed | 010100 | Red | goPed | | | | | | | |
| 4 | goSpring | 100001 | Red | goSpring | waitSpringToMain | goSpring | waitSpringToMain | waitSpringToPed | waitSpringToPed | waitSpringToPed | waitSpringToPed |
| 5 | waitSpringToMain | 100010 | Red | goMain | | | | | | | |
| 6 | waitSpringToPed | 100010 | Red | goPed | | | | | | | |
| 7 | goPed | 100100 | Green | hurryPedToMain | hurryPedToMain | hurryPedToSpring | hurryPedToMain | goPed | goPed | goPed | goPed |
| 8 | hurryPedToMain | 100100 | Flash Red | goMain | | | | | | | |
| 9 | hurryPedToSpring | 100100 | Flash Red | goSpring | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| # | State Name | Outputs | | Inputs ([ped][spring][main]) | | | | | | | |
| Main/Spring | Ped | 000 | 001 | 010 | 011 | 100 | 101 | 110 | 111 |
| 1 | goMain | 001100 | Red | goMain | goMain | waitMain | waitMain | waitMain | waitMain | waitMain | waitMain |
|  | waitMain | 010100 | Red | goSpring | goSpring | goSpring | goSpring | goPed | goPed | goPed | goPed |
| 4 | goSpring | 100001 | Red | goSpring | waitSpring | goSpring | waitSpring | waitSpring | waitSpring | waitSpring | waitSpring |
|  | waitSpring | 100010 | Red | goMain | goMain | goMain | goMain | goPed | goPed | goPed | goPed |
| 7 | goPed | 100100 | Green | hurryPed | hurryPed | hurryPed | hurryPed | goPed | goPed | goPed | goPed |
|  | hurryPed | 100100 | Flashing Red | goMain | goMain | goSpring | goSpring | goMain | goMain | goSpring | goSpring |