Inputs		
Ball I	Position	
	In	
	EMPTY	0
	UNKNOWN	1
	RIGHT	2
	WRONG	3
Ī	H1	
	EMPTY	0
	UNKNOWN	1
	RIGHT	2 3
	WRONG	3
ī	H2	
	EMPTY	0
	UNKNOWN	1
	RIGHT	2
	WRONG	3
- ;	Sh	
	EMPTY	0
	UNKNOWN	1
	RIGHT	2
	WRONG	3
ShBt	tn	
	UNPRESSED	0
ī	PRESSED	1

ıtputs	
Intake	
OFF	
INWARD	
OUTWARD	
Magazine	
OFF	
FORWARD	
Rear Ball Gate	
OPEN	
CLOSED	
Front Ball Gate	
OPEN	
CLOSED	
Shooter	
OFF	
SPIT	
SHOOT	

Output States								
Label	Shooter	Front Gate	Rear Gate	Magazine	Intake			
READ COLOR	0	*	*	0	0			
INTAKE B1	0	0	0	0	1			
ADVANCE B1	0	1	0	1	1			
STORE B2	0	1	1	0	0			
STORE B1	0	1	1	0	1			
REJECT B1	1	0	0	1	*			
SHOOT	2	0	0	1	0			
REJECT B2	*	*	*	0	2			
ADVANCE	*	*	*	1	0			

	State Transitions									
		Next State								
		READ COLOR	INTAKE B1	ADVANCE B1	STORE B2	STORE B1	REJECT B1	SHOOT	REJECT B2	ADVANCE
rrent State	READ COLOR						00320 00330 03020 03030		00230 02030 0220	00020 00030
	INTAKE B1	00010								
	ADVANCE B1					02000	00201 02001			
	STORE B2							02201		
	STORE B1							02001		
Cn	REJECT B1	00310 03010	00000			02000				
	SHOOT		00000							
	REJECT B2			00200		02000		00201 02001	-	
	ADVANCE	00310		00200	02200		00300	00201 00221		

