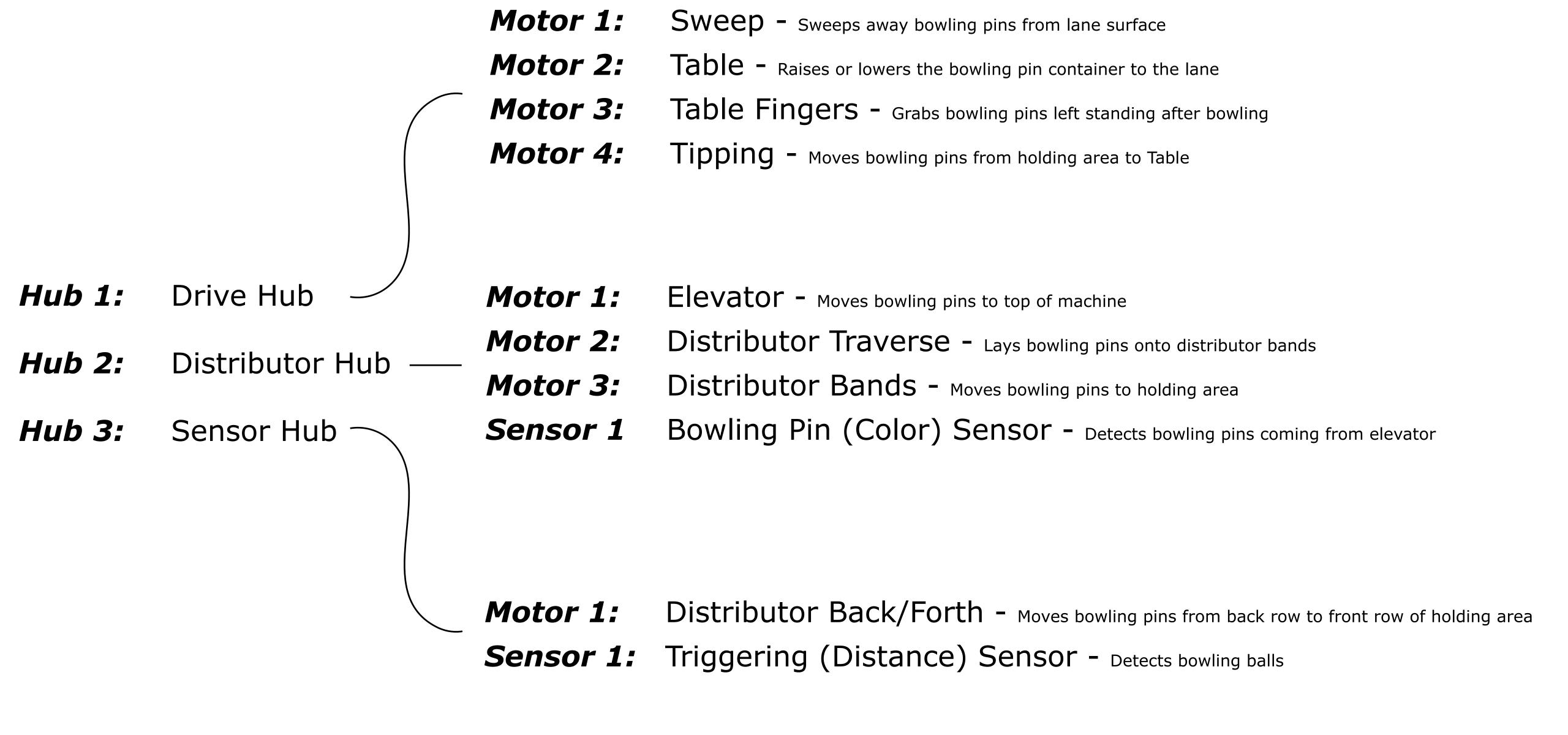
## TCAS Pinsetter



## TCAS Pinsetter

Cycle 1		Cycle 2	Distributor	Elevator
Triggering sensor		Triggering sensor	Bowling Pin Sensor	If no triggering > 40s
Sweep		Sweep	Wait 0.5s	Stop Elevator
Table Down		Wait 3 seconds	Distributor Traverse	
Table Fingers		Sweep	Count Distributor Cycle	Triggered
If fingers go far		Wait for holding area to be full		Start Elevator
Yes	No	Tipping	If Distributor Cycle equals 3 OR 7	
Table Up	Table Up	Table down	Distributor Traverse	
Sweep	Sweep	Table Up and Sweep	Distributor Back/Forth	
Wait for holding area to be full	Table Down		Distributor Bands	
Tipping	Table Up and Sweep		Tell holding area is full	
Table down	Wait for cycle 2		Distributor Bands	
Table Up and Sweep			Distributor Back/Forth	
			Distributor Traverse	

## TCAS Pinsetter

## Summary:

- Drive hub needs to know when Triggering sensor (sensor Hub) has sensed.
- Drive hub needs to know when holding area is full (Distributor Hub).
- Distributor hub needs to know when Triggering sensor (Sensor Hub) has sensed.
- Distributor hub needs to know when the Distributor Back/Forth is back. (Sensor Hub)
- Distributor hub needs to know if holding area is empty (Drive Hub)
- Sensor hub needs to know when to move the distributor back/forth, and how much since it differs depending on the distributor cycle count. (Distributor Hub)