TS-ALPHA SERIES NEW MOLD SET UP PROCEDURE.

(Please mark on each number after follow each step and go to next step)

Befor	e l	Molo	d Set Up
1.	()	WHEN ROBOT IS IN USE MODE " USE ".
2.	()	TURN ON ROBOT (HANDY CONTROLLER BOTTON SIDE).
3.	()	PRESS "ENTER" -> IT WILL MOVE ROBOT TO ORIGIN POINT.
4.	()	PRESS "FORWARD" TRAVERSE BUTTON UNTIL ROBOT GOES TO END OF STROKE. (Out
	Si	ide (of Molding Machine)
5.	()	And If robot get's Alarm " Turn off the robot.
6.	()	Move Plug on Interface box from Robot "Use "to "NO Use'
After	fir	nish	the Mold Set up and Run Molding machine.
7.	()	After get 1 st Piece Inspection is Passed from New Mold Set up process.
8.	()	Make End of Arm Tooling with Real Samples with Cavity, (Find Wide area to Suction).
9.	()	Make sure Robot EOAT position to grip or suction well for real parts (Do Not install EOAT yet).
10.	()	Move Plug on Interface box from Robot "No Use "to "Use"
11.	()	Turn on the Robot.
12.	()	Press "Enter" -> It will move robot to origin Point.
13.	()	Press "Forward "Traverse Button Until Robot goes to the end of Stroke. (Out side of Molding
	Μ	ach	ine) : Make sure there is nothing on Robot's way.
14.	()	Press "Up/Dn" Button and lower the Robot arm.
15.	()	Install End of Arm Tooling and. (Make sure EOAT will not hit robot and door when it's in motion
16.	()	Press "Up/Dn" Button and ascent the Robot arm.
17.	()	Press "Rotate" Button to Rotate Chuck and have Clearance for IMM Door.
18.	()	Press "Backward" Traverse Button until robot goes to the Home Position.
19.	()	Press "Rotate" Button to Rotate the Chuck.
Kick	Po	sitic	on and Stroke Adjustment : Need to required to adjust Descent position and kick (Reach) stroke.
20.	()	Open the Mold, Make sure IMM send signal to Robot Mold is completely open
21.	()	Turn on "Waiting Adjustment Power Switch"
22.	()	Press " waiting position " on Handy Controller
23.	()	Press arrow button to find right position and Stroke
24.	()	Make sure robot will not hit the mold when the robot arm down.
25.	()	Press Stop or Etc button to move to manual mode.
26.	()	Press Dn/Up button so that Robot arm can go in to the mold.
27.	()	Press "Waiting Position" on Handy Controller again.



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- 29. () Press Stop or Etc button to move to manual mode.
- 30. () Press Kick button
- 31. () If the stroke and position seems right, open the safety door, and adjust End of arm tooling.
- 32. () Press Kick Return and Press Dn/Up button
- 33. () Turn off "Waiting Adjustment Power Switch."

Automode Selection or Creation

- 34. () Make sure when the molding machine send signal to Robot when the mold is completely open
- 35. () Make sure Robot arm will not hit the mold or pin when robot arm is down.
- 36. () Press Shift and Mode at the same time.
- 37. () Press Enter to create or search the number that you already saved.
- 38. () If there is a file that is same motion type, select the Number and Run step by step operation and make sure motion is right for new application. (Step run can be run with Pressing Down arrow button)
- 39. () If need to create new motion , press "NEW MOLD" and create new motion pattern with Down Arrow button and left arrow button with pressing "Enter"
- 40. () If Motion pattern is right, run Step by step motion pattern with Down Arrow Button.
- 41. () If Step motion is right, Run 1 cycle button to see timer (This step can skip)
- 42. () Adjusting Timer required to proper operation especially when robot grip or suction the parts.

Automatic Run with Molding Machine

- 43. () Make sure all the motion pattern is right and Robot is in Waiting Position
- 44. () Close Safety Door, Make sure Molding Machine is ready to run in Auto Mode
- 45. () Run Molding Machine Automode.
- 46. () Press Auto in Handy Controller twice.
- 47. () Robot will wait until the mold open, When mold open, robot arm will descent and vacuum and kick to parts. If robot miss the parts robot will trigger the alarm (If Parts detection is on)
- 48. () If robot take out parts and up and traverse, Injection molding machine will close and run next cycle. Adjust timer while robot is in automode to optimize operation.

If something wrong, open safety door, it will stop molding machine and robot operation. (Pneumatic mechanism will run until end of stroke). In case of emergency, Press E-Stop of Molding Machine or Press-E-stop of Robot operation. If you have any question, Please feel free to contact me.

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