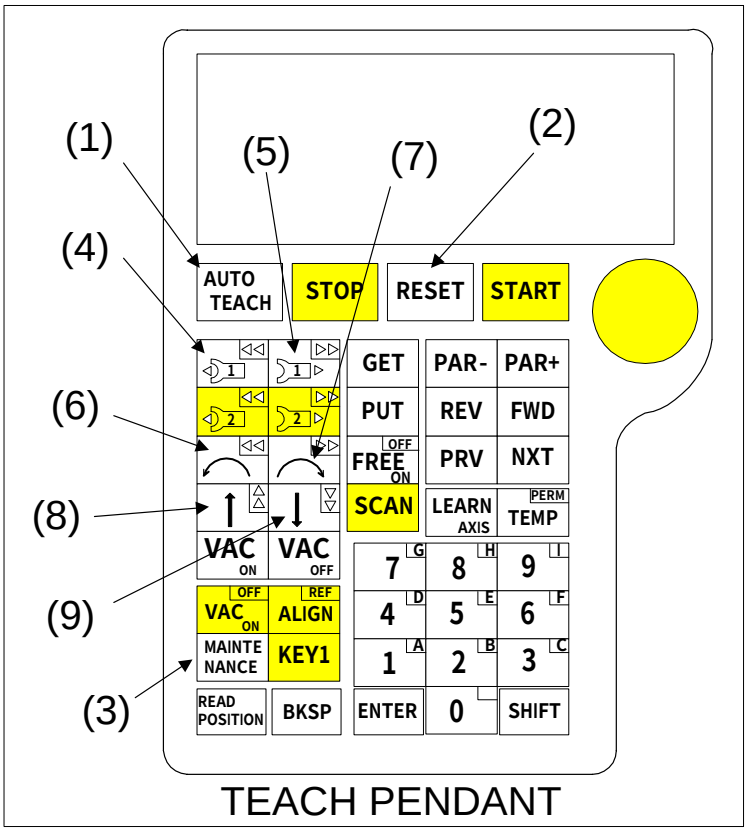
8.3 Teach pendant

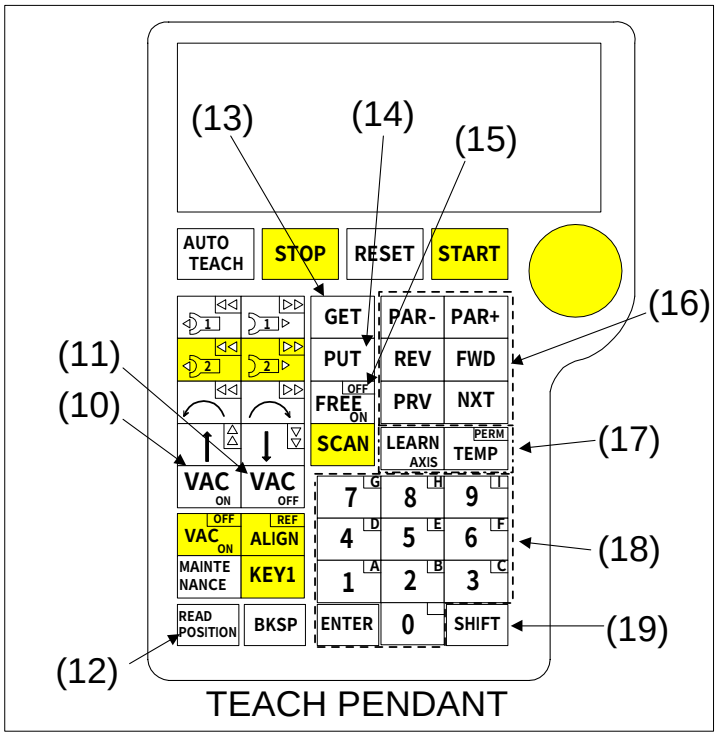
[AUTO/TEACH] key (1) and [MAINTENANCE] key (3) are enabled at Random mode.
Other keys are enabled at Robot teaching mode.
(Random mode: “RANDOM” is displayed on the teach pendant screen)
(Robot teaching mode: “TCHRBT” is displayed on the teach pendant screen)



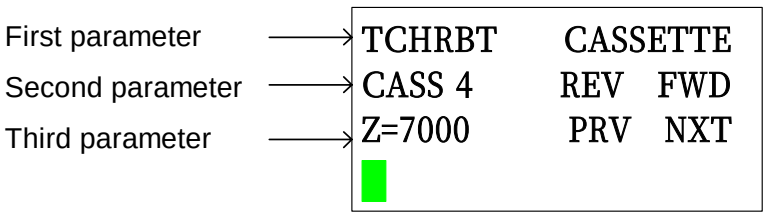
The keys shown by ▭ have no function.

(1) Pressing [AUTO/TEACH] key switches Random mode and Teaching mode.
(2) Pressing [RESET] key moves the robot to the original point.
(3) Pressing [MAINTENANCE] key displays “RANDOM” on the teach pendant screen, and manual operation will be enabled.
(4) Pressing the key extends the robot arm slowly.
Pressing (4) key with [SHIFT] key extends the robot arm at high speed.
(5) Pressing the key retracts the robot arm slowly.
Pressing (5) key with [SHIFT] key retracts the robot arm at high speed.
(6) Pressing the key turns the robot arm counterclockwise slowly.
Pressing (6) key with [SHIFT] key turns the robot arm counterclockwise at high speed.
(7) Pressing the key turns the robot arm clockwise slowly.
Pressing (7) key with [SHIFT] key turns the robot arm clockwise at high speed.
(8) Pressing the key moves up the robot arm slowly.
Pressing (8) key with [SHIFT] key moves up the robot arm at high speed.
(9) Pressing the key moves down the robot arm at low speed.
Pressing (9) key with [SHIFT] key moves down the robot arm at high speed.

8.3 Teach pendant (Continued)

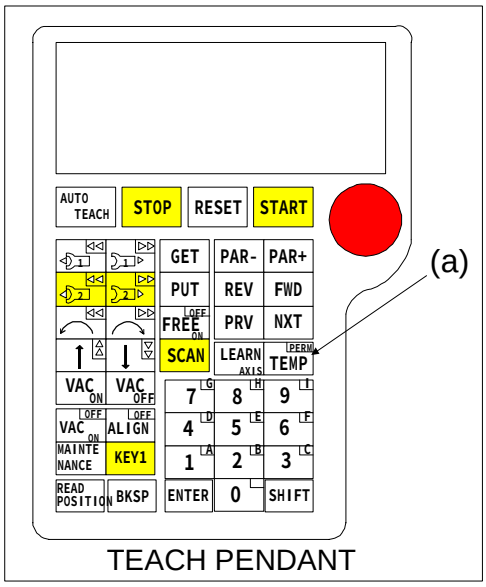


(10) Pressing [VAC_{ON}] key turns the robot arm vacuum on.
(11) Pressing [VAC_{OFF}] key turns the robot arm vacuum off.
(12) Pressing [READ POSITION] key indicates the current robot position on the teach pendant screen. Pressing the key again disappears the current robot arm position.
(13) Pressing [GET] key gets the wafer from specified place.
(14) Pressing [PUT] key puts the wafer from specified place.
(Refer to 8.7 "GET" and "PUT")
(15) Pressing [FREE] key releases the brakes for R-axis and T-axis. You can move the robot arm with hands.
(4)-(9) keys are not enabled when the brakes are released.
(16) The keys shown below can switch the parameter on the teach pendant screen.
Pressing [PAR+] / [PAR-] key can switch the first parameter.
Pressing [REV] / [FWD] key can switch the second parameter.
Pressing [PRV] / [NXT] key switch the third parameter.



(17) These keys are used to save the data.
(18) These keys are used to input the numerical values. After entering the numerical value, press [ENT] key, and press [TEMP] key to input.
(19) Pressing [SHIFT] key with other keys activates the function indicated upper right on the key.

8.3 Teach pendant (Continued)



TEACH PENDANT

(a) [TEMP] key:
Pressing the key saves the teaching data on RAM.

Pressing [TEMP] key with [SHIFT] key saves the data on DSP (Digital Signal Processor) unit. Although the machine power is turned off or reset the robot, the data will not be erased.

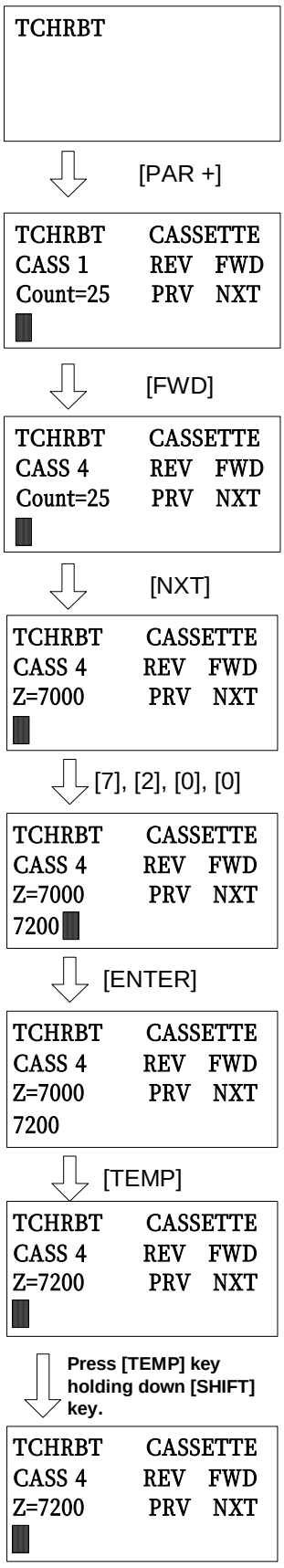
The data will be erased when only [TEMP] key is pressed, and turn off the machine or reset the robot.

Key	CASSETTE	STAGE	SPEED	POSITIONS		
				Home	Max	Min
[TEMP]	Yes	Yes	Yes	Yes	Yes	Yes

"Yes": Parameter data can be stored.
"No": Parameter data cannot be stored.

8.3 Teach pendant (Continued)

< Data save procedure with [TEMP] key >



<Change the Z value of CASS 4 from 7,000 to 7,200>

(1) Press [PAR +] / [PAR -] key to indicate “CASSETTE” on the upper right.

(2) Press [FWD] key to indicate “CASS4”.

(3) Press [NXT] key to indicate “Z”.

(4) Enter “7200”.

(5) Press [ENTER] key.

(6) Press [TEMP] key to save the new data on RAM.

* We recommend performing confirmation of the data using ”SCROLL CASS”, “SCROLL STAGE” and “GET”, “PUT” before next step.

(7) Press [TEMP] key with [SHIFT] key. The new data is saved on DSP unit.