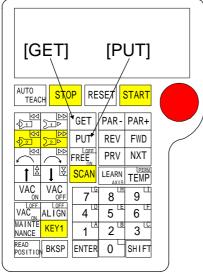


A CAUTION

"GET" / "PUT" is the robot arm operation to get / put the wafer. Erroneous operation of "GET" / "PUT" may cause of damage of the robot arm and wafer. Also it may cause of damage and performance decrement of the equipment.



TEACH PENDANT

The function of "GET":

Simulates the robot arm gets a wafer from the specified places (cassette or aligner)

You can specify the slot number to get the wafer.

The function of "PUT":

Simulates the robot arm puts a wafer to the specified place (cassette, aligner and chuck table)

You can specify the slot number to put the wafer.

<Objectives of "GET" / "PUT">

The robot arm motions are shown below during auto operation.

- (1) "GET" the wafer from the cassette.
- (2) "PUT" the wafer to the aligner pad.
- (3) "GET" the wafer from the aligner after the alignment has finished.
- (4) "PUT" the wafer onto the chuck table.
- (5) "PUT" the wafer into the cassette.

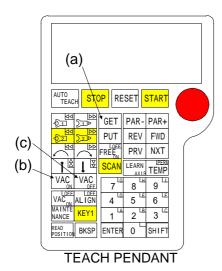
"GET" and "PUT" are to judge the robot arm motions are correct or not. Keep the following rules.

- Do not simulate the robot motion that is not done actually.

 (Example: After getting the wafer from the cassette, puts the wafer on the chuck table)
- Perform the alignment after the wafer is put on the aligner.

8.7 "GET" and "PUT" (Continued)

<Keys for "GET">



<"GET" Procedure>



GET Cass / Stage =

√ [4], [ENTER]

GET Cass / Stage = 4 Slot =

↓ [10], [ENTER] **GET**

Cass / Stage = 4 Slot = 10

√ [ENTER] The robot arm gets the wafer.

(a) [GET] key: Pressing the key selects the position where the robot arm gets the wafer.

(b) [VAC_{ON}] key: Pressing the key turns on vacuum of the robot arm.

(c) [VAC_{OFF}] key: Pressing the key turns off the vacuum of the robot arm. To release the wafer from the robot arm, press this key.

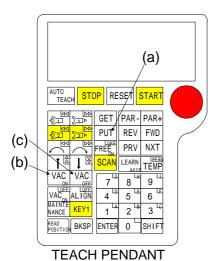
<"GET" Procedure>

Perform "8.2 Preparation for robot teaching".

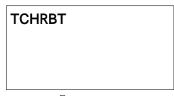
- (1) Place a wafer to the slot you want to get with the robot, and set the cassette on the cassette table.
- (2) Press [RESET] key to move the robot to the original point.
- (3) Press [AUTO / TEACH] key to switch "RANDOM" to "THCRBT" mode.
- (4) Enter "746" and press [OK]. The robot arm vacuum is turned on.
- (5) Press "GET" key (a).
- Enter "Cass / Stage" to "GET", and press [ENTER] key.
- (7) Enter "Slot" (lowest slot = 1st slot). Enter "0" when the robot gets the wafer from the aligner.
- (8) Press [ENTER] key to perform "GET".
 - * In the case of "Slot = 0": Pressing [ENTER] key indicates "T=". Select appropriate mode from T1, T2, and T3, then press [ENTER] key.

8.7 "GET" and "PUT" (Continued)

<Keys for "PUT">



<"PUT" Procedure>



↓ [GET]

PUT Cass / Stage =

↓ [4], [ENTER]

PUT
Cass / Stage = 4
Slot =

 $\sqrt{}$ [10], [ENTER]

PUT
Cass / Stage = 4
Slot = 10

↓ [ENTER]

The robot arm puts the wafer

- (a) [PUT] key: Pressing the key selects the position where the robot arm puts the wafer.
- (b) [VAC_{ON}] key: Pressing the key turns on vacuum of the robot arm.
- (c) [VAC_{OFF}] key: Pressing the key turns off the vacuum of the robot arm. To release the wafer from the robot arm, press this key.

<"PUT" Procedure>

Perform the operation with the robot arm chucking the wafer.

Perform "8.2 Preparation for robot teaching".

- Confirm the slot to "PUT" the wafer is empty, and set the cassette on the cassette table.
- (2) Press "PUT" key (a).
- (3) Enter "Cass / Stage" to "PUT", and press [ENTER] key.
- (4) Enter "Slot" (lowest slot = 1st slot).

 Enter "0" when the robot puts the wafer to the aligner and chuck table.
- (5) Press [ENTER] key to perform "PUT".
 - * In the case of the "Slot = 0":

 Press [ENTER] key indicates "T=".

 Select appropriate mode from T1, T2, and T3, then press
 [ENTER] key.

8.7 "GET" and "PUT" (Continued)

<Table 1>

< rable 1>				
CASS.#	Wafer size	Cassette table	Cass / Stage	Slot
CASS 1	4-inch	- Right	1	Enter the slot number of the cassette. (The lowest slot = 1 st slot)
CASS 2	5-inch		2	
CASS 3	6-inch		3	
CASS 4	8-inch		4	
CASS 5	4-inch	- Left	5	
CASS 6	5-inch		6	
CASS 7	6-inch		7	
CASS 8	8-inch		8	
CASS 9	4-inch	- Right	9	
CASS 10	5-inch		10	
CASS 11	6-inch		11	
CASS 12	8-inch		12	
CASS 13	4-inch	Left	13	
CASS 14	5-inch		14	
CASS 15	6-inch		15	
CASS 16	8-inch		16	
CASS 17	4-inch	- Right	17	
CASS 18	5-inch		18	
CASS 19	6-inch		19	
CASS 20	8-inch		20	
CASS 21	4-inch	Left	21	
CASS 22	5-inch		22	
CASS 23	6-inch		23	
CASS 24	8-inch		24	

STAGE#	STAGE POISITION	Cass / Stage	Slot
STAGE 1	Aligner GET / PUT	1	0
STAGE 2	Chuck table PUT	2	0
STAGE 6	CHUCK TABLE GET	6	0