The mechanical H-O-A controls on the door of the E7 bypass will handle switching the E7 to keypad speed control when in HAND position or serial communication control when in the AUTO position.

Yaskawa presets the E7's parameters to function with the options ordered on each E7 bypass. The proper settings are described in the bypass schematic that ships with each E7 bypass. (see e7b-00.pdf attached)

A section of the E7 bypass drawing is shown below in Table 2.

When setting up an E7 bypass, the parameter settings on page two of the BYPASS schematic (e7b-00 attached pdf file) must be followed exactly for the specific options supplied with the E7 bypass.
(Read table 2 from the left by first choosing which bypass options are installed then follow the selected row across for the correct parameter settings.

Parameter **"B1-01 Frequency Reference Selection"** is used to set which speed reference the drive uses in the HAND switch position.

Parameter "B1-01 Frequency Reference Selection"needs be set only once to a **"0 :Operator"** from then on, the E7 speed can be controlled from the digital operator (keypad) when in the HAND mode.

Table 4.5 Speed Command Selection					
Parameter No.	Parameter Name Digital Operator Display	Setting Choices	Setting Range	Factory Setting	Menu Location
b1-01	Frequency Reference Selection **Reference Source**	0: Operator 1: Terminals 2: Serial Com 3: Option PCB	0 - 3	1	Quick Setting or Programming

Download instruction manuals or other literature on the E7 product.

Excerpt from E7 bypass drawing "E7b-00_"

SPECIAL DRIVE PARAMETER SETTINGS TABLE 1

PARAMETER	DATA	UNIT	DESCRIPTION/REMARKS
b1-01	SEE TABLE 2	N/A	FREQUENCY REFERENCE SELECTION
b1-07	1	N/A	LOCAL/REMOTE RUN SELECTION - ACCEPTS EXTERNAL RUN
b1-08	1	N/A	RUN COMMAND SELECTION DURING PROGRAMMING - ENABLED
b2-03	5.0	SEC.	DC INJECTION BRAKING TIME AT START
b9-01	1	N/A	ENERGY SAVING CONTROL ENABLED
d1-01	10.0	HZ.	FREQUENCY REFERENCE 1 - SEE TABLE 2
d1-02	6.0	HZ.	FREQUENCY REFERENCE 2 - SEE TABLE 2
d1-04	40.0	HZ.	FREQUENCY REFERENCE 4 - WITH OPTION J SERIAL COMM. LOSS, AND H5-04 SET TO 4
E1-01	240(480)	VOLTS	STANDARD INPUT VOLTAGE SETTING
	208		INPUT VOLTAGE SETTING FOR BASE NUMBER "D" ____
F6-01	3	N/A	OPERATION SELECTION AFTER OPTION L SERIAL COMM. ERROR - DRIVE ALARM ONLY
H1-01	70	N/A	TERMINAL S3 SET FOR BYPASS DRIVE ENABLE
H1-03	SEE TABLE 2	N/A	TERMINAL S5 SELECTION
H2-02	3B	N/A	TERMINALS M3-M4 SET FOR SERIAL COMM. RUN COMMAND
H3-02	SEE TABLE 2	%	TERMINAL A1 SIGNAL GAIN SETTING
H3-08	SEE TABLE 2	N/A	TERMINAL A2 SIGNAL SELECTION
H3-09	SEE TABLE 2	N/A	TERMINAL A2 FUNCTION SELECTION
H3-13	SEE TABLE 2	N/A	TERMINALS A1 AND A2 MASTER FREQUENCY REFERENCE SELECTION
L4-05	0	N/A	FREQUENCY REFERENCE LOSS DETECTION DISABLED
L5-01	10	N/A	NUMBER OF AUTO RESTART ATTEMPTS
L5-03	600.0	SEC.	MAXIMUM RESTART TIME AFTER FAULT
c2-02	0	N/A	DIGITAL OPERATOR KEYPAD "OFF" KEY DISABLED
c2-15	0	N/A	DIGITAL OPERATOR KEYPAD "HAND" KEY DISABLED
c3-02	1	N/A	DIGITAL OPERATOR KEYPAD READ ALLOWED ENABLED

DRIVE OPERATION MODE SELECTION TABLE 2

OPTION PRESENT				SPECIAL DRIVE PARAMETER SETTINGS						DRIVE CONTROL BOARD	HAND MODE DRIVE SPEED REFERENCE			AUTO MODE DRIVE SPEED REFERENCE				
SERIAL COMM.		3-15 PSI XDUCER	SPEED POT							SW. S1-2 SETTING			SPEED POT	4-20 MADC	0-10 VDC	3-15 PSI	SERIAL COMM.	SEE NOTE
J	L	P	S	b1-01	H1-03	H3-02	H3-08	H3-09	H3-13		d1-01	d1-02						
				1	3	0.0	2	0	1	ON •		YES		YES				
				1	3	0.0	0	0	1	OFF		YES			YES			
YES				0	6C	0.0	2	2	0	ON •	YES						YES	7
YES			YES	1	6C	100.0	2	2	0	ON •			YES				YES	7
	YES			0	6C	0.0	2	2	0	ON •	YES						YES	7
	YES		YES	1	6C	100.0	2	2	0	ON •			YES				YES	7
		YES		1	3	0.0	2	0	1	ON ▼		YES				YES		
		YES	YES	1	3	100.0	2	2	1	ON •			YES			YES		
			YES	1	3	100.0	2	2	1	ON ▼			YES	YES				
			YES	1	3	100.0	0	2	1	OFF			YES		YES			

• = FACTORY SETTING