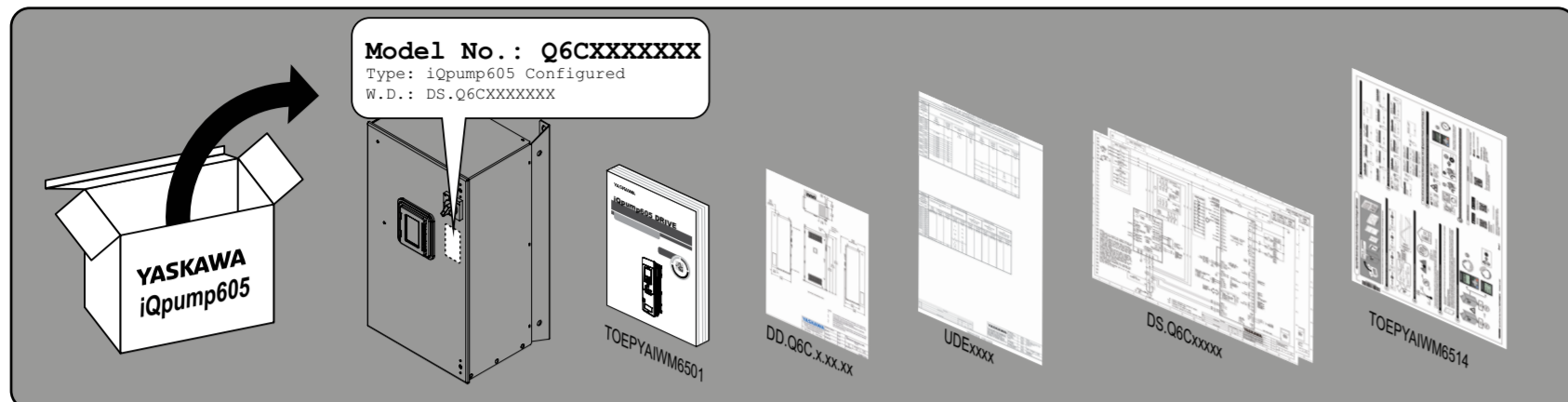


# iQpump®605 Quick Setup Procedure for Configured Packages Q6Cxxxxxx



Read and follow the safety and installation procedures in the Installation & Primary Operation (TOEPYAIWM6501) manual packaged with the drive.

## 1 Confirm the Drive and Motor Specifications

VOLTS ≥ VOLTS    
  AMPS ≥ AMPS    
  HP ≥ HP    
  HERTZ ≥ HERTZ

A.C. INPUT  
Volts: 208 Hz: 50/60  
Phase: 3

SCCR: 100 kA rms sym., V max.

A.C. OUTPUT  
Volts: 0-208 Hz: 50/60  
Phase: 3 Amps: 10.6

50/60Hz

AC3PH 200-240V

AC3PH 380-480V

## 2 Confirm the Correct Installation Environment

UL Type 1  
 UL Type 12  
 UL Type 3R

+40 °C (104 °F)  
 95 RH  
 ≤ 1000 m (3281 ft)

• 10 Hz to 20 Hz: 1 G (9.8 m/s<sup>2</sup>, 32.15 ft/s<sup>2</sup>)  
 • 20 Hz to 55 Hz: 0.2 G (1.96 m/s<sup>2</sup>, 6.43 ft/s<sup>2</sup>)

Pollution Degree 2  
 Overvoltage Category 3

\*1 You can use the drive at a maximum of 50 °C (122 °F) on a UL Type 3R package with the 50 °C ambient option. Refer to the Technical Reference (SIEPYAIWM6501) for derating information.

## 3 Select the Input and Output Wires and Branch Circuit Protection

Use your Customer Connection Drawing to help you select the correct wires. The Customer Connection Drawing for your model is packaged with your drive.

**Branch Circuit Protection**  
 WARNING! Fire Hazard. The standard configured package includes an MCCB that provides branch circuit protection. Branch Circuit protection is required to be installed according to applicable local codes and the requirements listed on the nameplate. The configured package is suitable for use on a circuit capable of delivering not more than the SCCR rating on the nameplate, 208/240 Vac and 480 Vac with the circuit breaker option as specified on the nameplate. Failure to obey can cause fire and damage to the configured package and drive or injury to personnel.

## 4 Energize the Drive and Confirm It Is Ready

## 5 Set the Real-Time Clock and Disable the Initial Setup Screen

## 6 Run the Setup Wizard

If you will not use one of the Setup Wizard applications, refer to **E** Application Presets and Pump Quick Setup

## 7 Use HAND Operation to Check the Motor Rotation Direction and Check the Feedback Signal

Check Y1-02 and Y1-03 if the System Units or Feedback Device Scaling are incorrect.

### Additional Resources

[Download on the App Store](#)  
**Mobile App**

[GET IT ON Google Play](#)  
**Product Manuals**

DriveWizard® Mobile Commissioning Smartphone App  
<https://www.yaskawa.com/dwm>

PDFs  
<https://www.yaskawa.com/iqump605manuals>

### Customer Feedback

Comments or questions about this document? Fill out our online form:



or  
 Email us: [technical\\_documentation@yaskawa.com](mailto:technical_documentation@yaskawa.com)  
 Call us: 1-800-YASKAWA (927-5292)  
[www.yaskawa.com/DRV-F-0006](http://www.yaskawa.com/DRV-F-0006)

Please consider following us on social media:

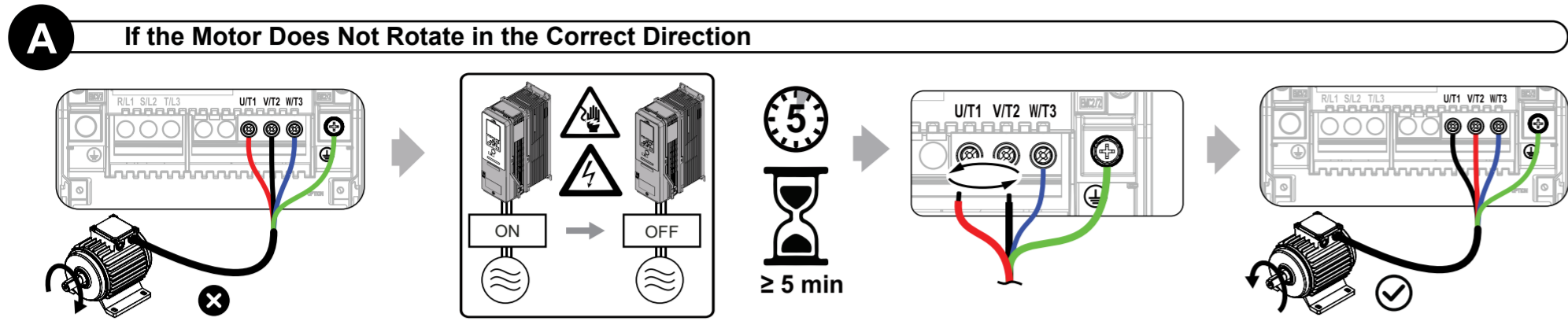
[www.youtube.com/yaskawayea](http://www.youtube.com/yaskawayea)

[www.linkedin.com/company/18822](http://www.linkedin.com/company/18822)

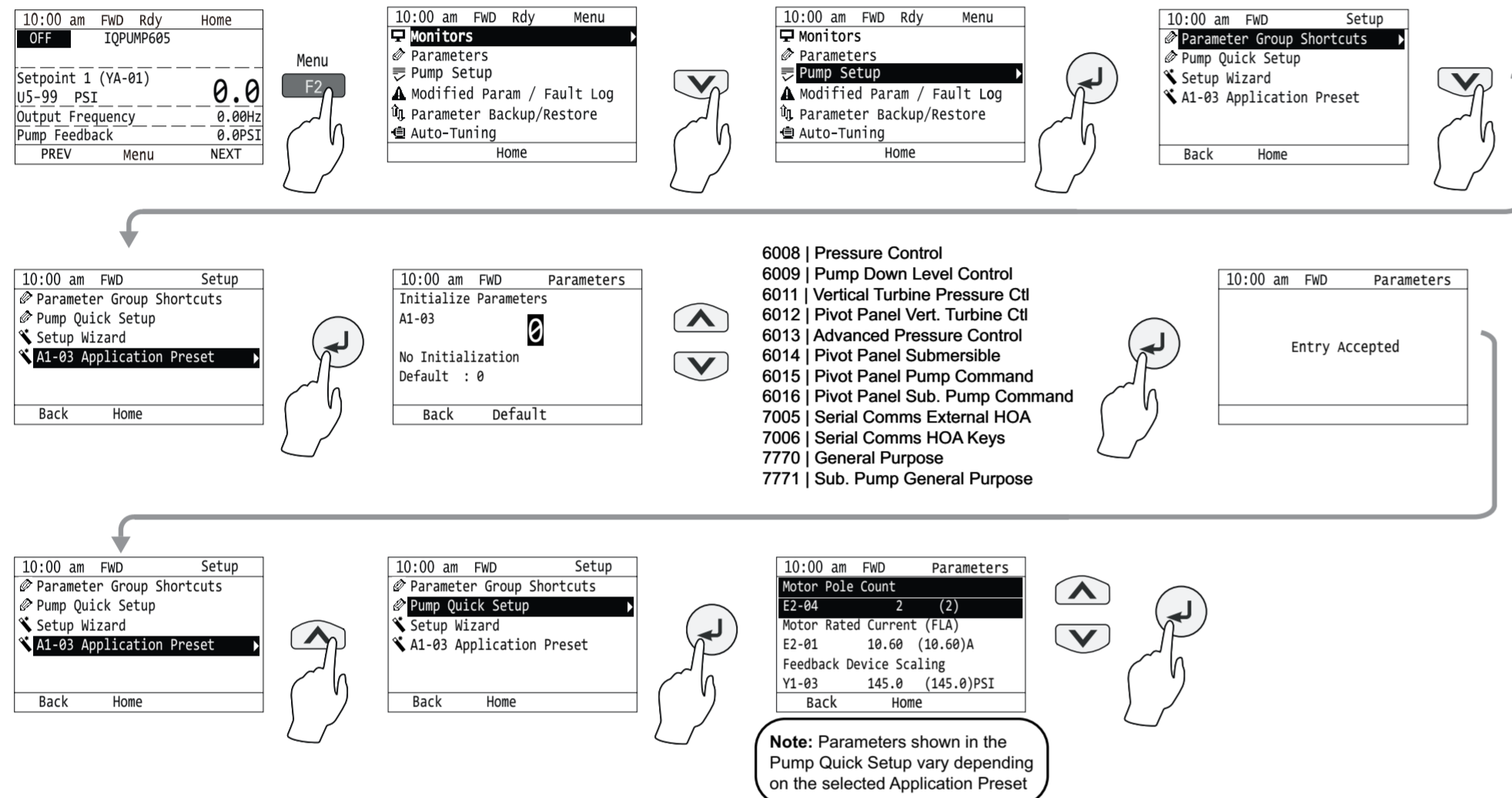
Headquarters Address:

YASKAWA AMERICA, INC.  
 2121 Norman Drive South  
 Waukegan, IL 60085  
 USA

## Additional Information for Primary Operation



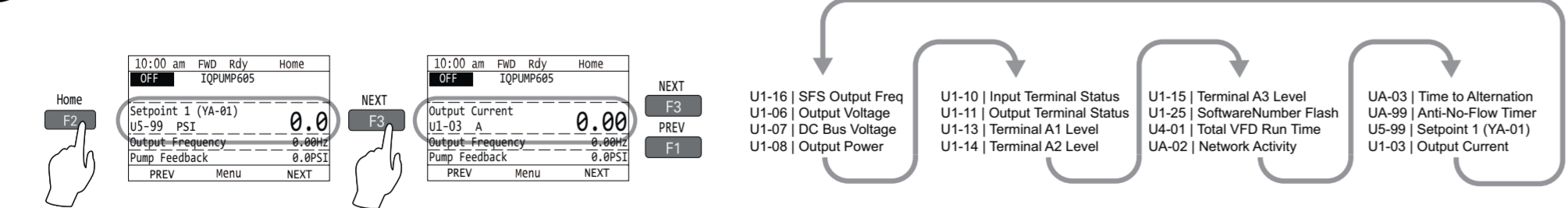
## B Application Presets and Pump Quick Setup



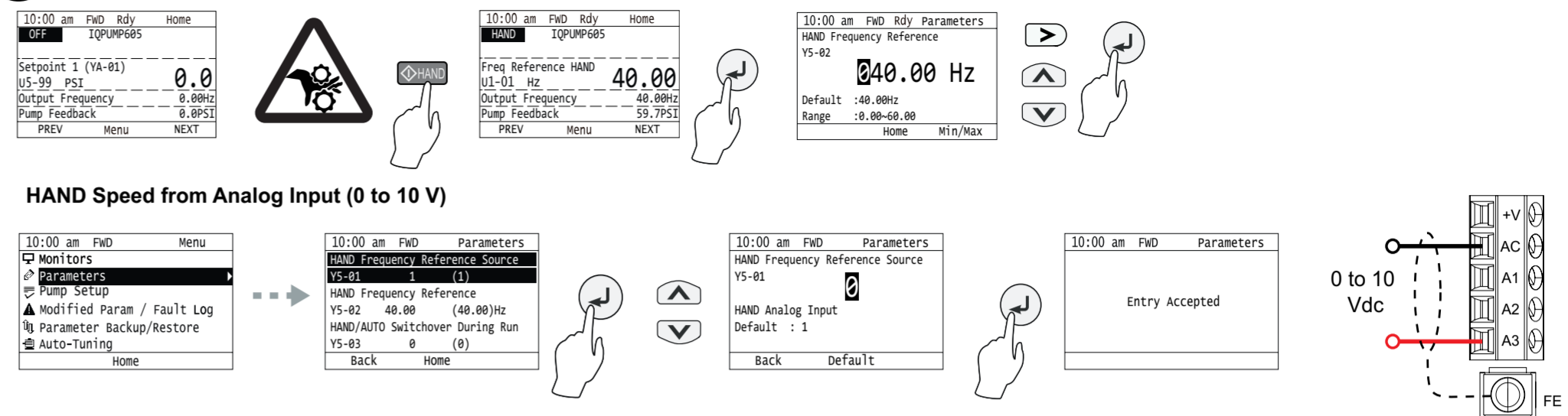
## C Troubleshooting Resources for Drive Faults and Alarms

Resource	Choose This When:	URL	QR Code
DriveWizard Mobile App	You want to use your smartphone or tablet and use the embedded help to look up the full complement of causes and solutions to all drive faults and alarms.	<a href="https://www.yaskawa.com/dwm">https://www.yaskawa.com/dwm</a>	<p>Download on the App Store GET IT ON Google Play</p>
Maintenance & Troubleshooting Manual	You want to download a PDF of the manual to your smartphone or tablet. This manual lists the full complement of causes and solutions to all drive faults and alarms and also includes detailed information about drive maintenance, wiring, and programming.	<a href="https://www.yaskawa.com/toepyaiwm6503">https://www.yaskawa.com/toepyaiwm6503</a>	

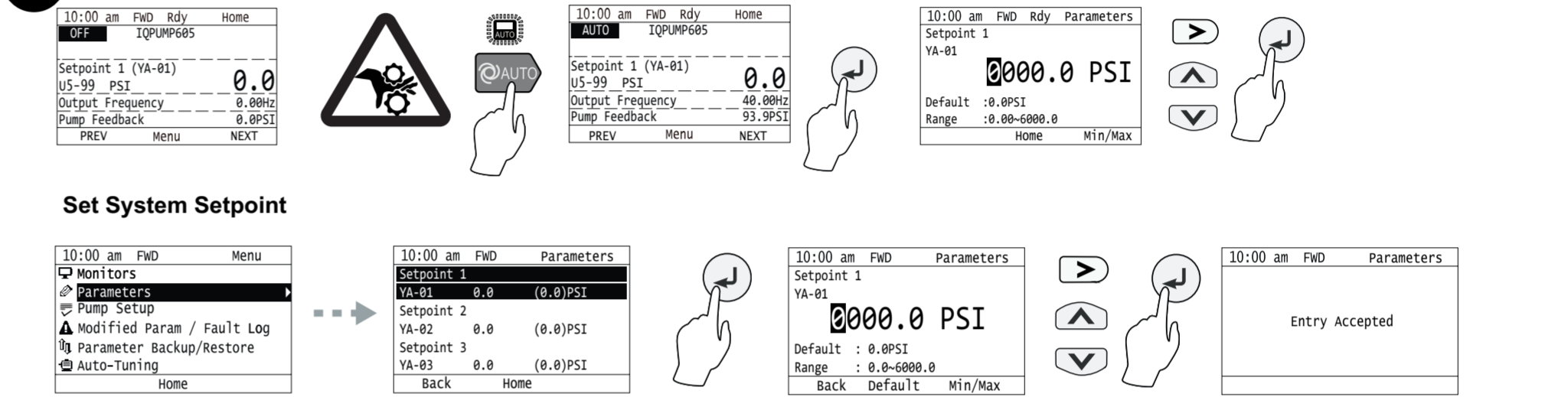
## D Quick Monitor View



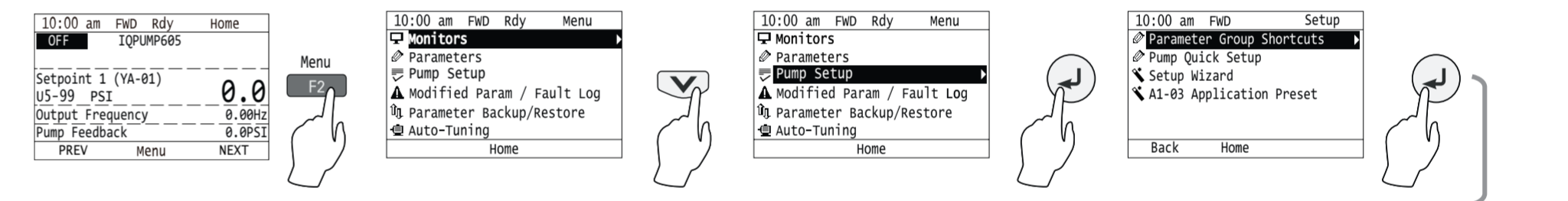
## E HAND Mode Operation



## F AUTO Mode Operation



## G Parameter Group Shortcuts



Parameter Group Shortcut	Parameter Number   Name	Parameter Group Shortcut	Parameter Number   Name	Parameter Group Shortcut	Parameter Number   Name
Pump HAND Mode Selection	Y5-01   HAND Frequency Reference Source	Start & Sleep Level	Y1-04   Sleep Wake-Up Level	Dry Run/Loss of Prime	Y1-18   Prime Loss Detection Method
	Y5-02   HAND Frequency Reference		Y1-05   Sleep Wake-up Level Delay Time		Y1-19   Prime Loss Level
	Y5-03   HAND/AUTO Switchover During Run		Y1-06   Minimum Speed		Y1-20   Prime Loss Time
	Y5-04   Operation HAND Key		Y2-03   Sleep Delay Time		Y1-22   Prime Loss Selection
	Y5-05   HAND Frequency Reference 2		Y2-05   Sleep Boost Level		Y1-23   Prime Loss Max Restart Time
	Y5-06   HAND Reference Prime Loss Level		Y2-06   Sleep Boost Hold Time		L5-51   Loss of Prime Fault Retry Select
	Y5-07   HAND Reference Prime Loss Level2		Y2-07   Sleep Boost Max Time		L5-55   Loss of Prime Fit Retry Attempts
Run/Stop Control Operation	Y5-09   HAND MOP Selection	Low Feedback	Y1-08   Low Feedback Level	Pre-Charge	Y4-01   Pre-Charge Level
	Y4-10   AUTO Key Memory at Power Down		Y1-09   Low Feedback Lvl Fault Dly Time		Y4-02   Pre-Charge Frequency
	b1-01   Frequency Reference Selection 1		Y1-10   Low Feedback Selection		Y4-03   Pre-Charge Time
	b1-02   Run Command Selection 1		L5-40   Low Feedback Fit Retry Selection		Y4-05   Pre-Charge Loss of Prime Level
	b1-03   Stopping Method Selection		L5-43   LowFeedback Fault Retry Attempts		Y4-06   Pre-Charge Frequency 2
	b1-04   Reverse Operation Selection		L5-46   Low Feedback Fault Restart Time		Y4-07   Pre-Charge Time 2
	b1-11   Run Delay @ Stop (Backspin)		Y1-11   High Feedback Level		Y4-08   Pre-Charge Loss of Prime Level 2
Pump (PID) Tuning	b1-14   Phase Order Selection	High Feedback	Y1-12   High Feedback Lvl Fault Dly Time	Output Current Limit	YC-01   Output Current Limit Select
	Y4-10   AUTO Key Memory at Power Down		Y1-13   High Feedback Selection		YC-02   Current Limit
	Y4-17   Utility Start Delay		L5-41   Hi Feedback Fit Retry Selection		Y2-10   Max Cycling Protection Allowed
	b5-01   PID Mode Setting		L5-44   Hi Feedback Fault Retry Attempts		Y2-11   Cycling Count Decrement Time
	b5-02   Proportional Gain (P)		L5-47   Hi Feedback Fault Restart Time		Y2-12   Over Cycle Mode
	b5-03   Integral Time (I)		Y1-15   Maximum Setpoint Difference		L5-52   Over Cycle Fault Retry Selection
	b5-09   PID Output Level Selection		Y1-16   Not Maintaining Setpoint Time		L5-56   Over Cycle Fault Retry Attempts
Accel/Decel/Thrust	C1-01   Acceleration Time 1	Setpoint Not Met	Y1-17   Not Maintaining Setpoint Sel	Pump Over Cycle	L5-59   Over Cycle Fault Restart Time
	C1-02   Deceleration Time 1		L5-50   Setpoint Not Met Fault Retry Sel		L5-01   Number of Auto-Restart Attempts
	Y4-11   Thrust Acceleration Time		L5-54   Setpoint Not Met Retry Attempts		L5-04   Interval Method Restart Time
	Y4-12   Thrust Frequency		L5-58   Setpoint Not Met Restart Time		YC-10   Single Phase Foldback Sel
	Y4-13   Thrust Deceleration Time				YA-01   Setpoint 1
					YA-02   Setpoint 2
					YA-03   Setpoint 3
		YA-04   Setpoint 4			
		o1-83   Drive Name			
		o1-84   Drive Name Unit Number			