



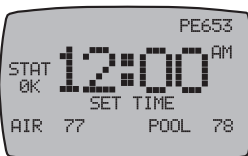
MultiWave Quick-Start Guide for 1 and 2-Speed Pump Applications

Linking the Controller to Receiver

1. Press **P/S** and **ENTER** simultaneously to access **LEARN MODE**.
2. Press **3 INCLUDE DEVICE**.
3. With a blunt object, press **INCLUDE** button on the receiver. See Figure 4-4. The controller displays **SUCCESSFUL** and returns to **LEARN MODE** screen.

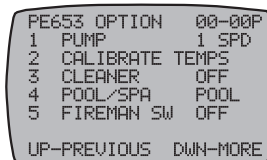
Setting the Time of Day in the Controller

1. From the Time of Day screen, press and hold **P/S**. The screen displays **SET TIME**.
2. Press **▲** or **▼** to select the time and press **ENTER**.
NOTE: Hold the arrow button for five seconds to rapidly scroll.



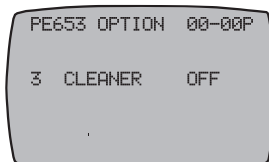
Configuring Single or 2-Speed Pump

1. Press **P/S** and **ENTER** simultaneously to access **LEARN MODE**.
2. Press **▼** to scroll to the **PE653 OPTION** screen.
3. Press **1 PUMP**.
4. Press **▲** or **▼** to scroll to **1SPD** or **2SPD** and press **ENTER**. The controller displays **SUCCESSFUL** and returns **LEARN MODE**.



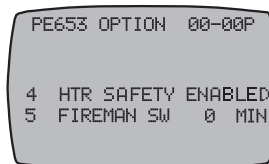
Configuring Booster (Cleaner) Pump

1. If necessary, press **P/S** and **ENTER** simultaneously to access **LEARN MODE**.
2. Press **▼** to scroll to **PE653 OPTION** screen.
3. Press **3** to select **CLEANER**.
4. Press **▲** or **▼** to change from OFF to **CIR1** for single or 2-speed pump and press **ENTER**.
5. Press **ENTER** to return to the PE653 screen.



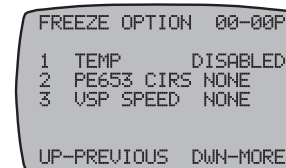
Setting Fireman Switch Time Interval

1. Press **P/S** and **ENTER** simultaneously to access **LEARN MODE**.
2. Press **▼** to scroll to the **PE653 OPTION** screen.
3. Press **5** to select **FIREMAN SW**.
4. Press **▲** or **▼** to set the time interval and press **ENTER**.
NOTE: The **FIREMAN SW** must be set to **ON** and the time interval set to **0** for HEAT PUMP applications.



NOTE: A freeze/air temperature sensor must be installed.

1. Press **P/S** and **ENTER** simultaneously to access **LEARN MODE**.
2. Press **▼** to scroll to the **FREEZE OPTION** screen.
3. Press **1** to select **TEMP**.
4. Press **▲** or **▼** to set the freeze temperature threshold and press **ENTER**. The controller displays **SUCCESSFUL**, and then returns to the **FREEZE OPTION** screen.
5. Press **2** to select the desired circuits to activate when the freeze temperature is reached.



6. Press the applicable buttons (**1-5**) on the controller to activate the appropriate circuits.

NOTE: If you have a single speed pump, press **1** to circulate water. If you have a two-speed pump, press **1** for high speed or **2** for low speed.

Configuring Events for Circuits

1. Press **ENTER** to access the **PE653** screen.
2. Press and hold **P/S** until the controller displays **SET TIME**.
3. Press **P/S** to display the schedules screen and then press **P/S** again to scroll to the desired circuit.
4. Press **1** to advance to the ON time for the first event.
5. Press **▲** or **▼** to set the starting time for the ON event.
6. Press **1** to advance to the end time for the first event.
7. Press **▲** or **▼** to set the ending time for the event.
8. If you want to set another event, press (2 or 3) to select an ON time. If all the events are set, go to step 11.
9. Repeat steps 6 through 8 to set the ON and OFF times for the event.
10. When all events are set for the circuit, press **P/S** to advance to next circuit.
11. Repeat steps 5 to 11 as needed to configure additional circuit events.

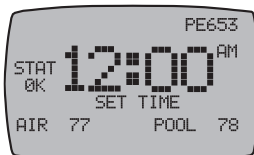
MultiWave Quick-Start Guide for Variable Speed Pump Applications

Linking the Controller to Receiver

1. Press **P/S** and **ENTER** simultaneously to access **LEARN MODE**.
2. Press **3** **INCLUDE DEVICE**.
3. With a blunt object, press **INCLUDE** button on the receiver. See Figure 4-4.
The controller displays **SUCCESSFUL** and returns to **LEARN MODE** screen.

Setting the Time of Day

1. From the Time of Day screen, press and hold **P/S**.
2. Press **▲** or **▼** to select the time and press **ENTER**.
NOTE: Hold the arrow button for five seconds to rapidly scroll.

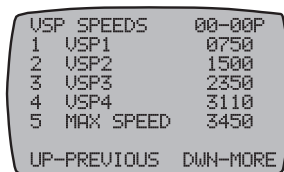


Configuring a Variable Speed Pump Names

1. Press **ENTER** to display the **VARSPD INT** (variable speed) screen.
2. Press and hold **P/S** and **ENTER** together to access **LEARN MODE**.
3. Press **▼** to scroll to **VSP NAMES** screen.
4. Press a button (1-4) on the controller to access the speed you want to name.
5. Press **▲** or **▼** to set the first character in the name and then press **P/S** to move to the next character.
6. When the name is complete, press **ENTER**.
7. If necessary, repeat this procedure to configure another variable speed name.

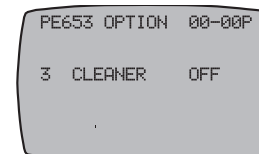
Configuring Speeds for Variable Speed Pump

1. Press **ENTER** to display the **VARSPD INT** (variable speed) screen.
2. Press and hold **P/S** and **ENTER** together to access **LEARN MODE**.
3. Press **▼** to scroll to **VSP SPEEDS** screen.
4. Press **1** to set speed for a button on your controller.
5. Press **▲** or **▼** to adjust the speed and press **ENTER**.
6. Repeat steps 4 and 5 as needed to set a speed for each button.



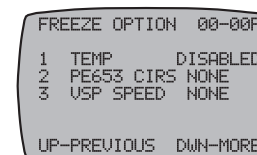
Configuring Booster (Cleaner) Pump

1. Press **P/S** and **ENTER** simultaneously to access **LEARN MODE**.
2. Press **▼** to scroll to the **PE653 OPTION** screen.
3. Press **3** to select **CLEANER**.
4. Press **▲** or **▼** to assign a variable speed for the cleaner pump.
5. Press **ENTER** to return to the **PE653** screen.



Configuring the Freeze Temperature (Optional)

1. Press **P/S** and **ENTER** simultaneously to access **LEARN MODE**.
2. Press **▼** to scroll to the **FREEZE OPTION** screen.
3. Press **3** to select **VSP SPEED**.
4. Press **▲** to set freeze temperature and press **ENTER**.
5. Press **ENTER** to return to the home screen



Configuring ON/OFF Events for Variable Speeds

1. Press **ENTER** to display the **VARSPD INT** (variable speed) screen.
2. Press and hold **P/S** to display the time of day.
3. Press and hold **P/S** again to select the speed to be assigned a schedule.
4. Press **1** to advance to the ON time for the first event.
5. Press **▲** or **▼** to set the starting time for the ON event.
6. Press **1** to advance to the end time for the first event.
7. Press **▲** or **▼** to set the ending time for the event.
8. If you want to set another event for the speed, press **2** or **3**.
9. If you want to assign an event for another speed, repeat steps 3 through 8.
10. When all the are programmed, press **ENTER** to return to the home screen.

Configuring the Fireman Switch Time Interval

1. Press **P/S** and **ENTER** simultaneously to access **LEARN MODE**.
2. Press **▼** to scroll to the **PE653 OPTION** screen.
3. Press **5** to select **FIREMAN SW**.
4. Press **▲** to set desired cool down time and press **ENTER**. The screen displays **SUCCESSFUL** and returns to **PE653 OPTION** screen.