

**VERSATEC™ S1**

**Description**

The Versatec S1 has the following changes from the standard VERSATEC.

1. A US-2 ultrasonic sensor is used as the dancer position sensor.
2. The only mode available is DANCER with TORQUE output.
3. The maximum displayed distance is now 90 in. (2,286 mm)

**Dancer Setup**

Refer to the Versatec instruction manual for installation instructions and electrical connections.

Apply power. Screen contrast can be adjusted by pressing ← and → for 2 seconds. Adjust using the + and – keys.

Press **PROGRAM**

Press ↓ to enter LOOP DISTANCES menu

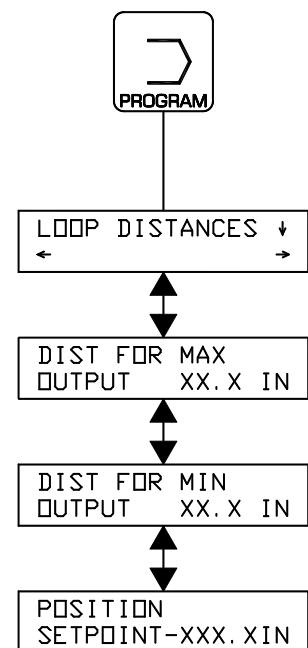
Continue through the flow chart at right entering desired data in each screen.

Basic setup cannot be performed if E-STOP is open, or if RUN/STOP is in run mode.

The parameters DISTANCE FOR MAX OUTPUT and DISTANCE FOR MIN OUTPUT set the basic gain of the system. The dancer will operate between these distances. DISTANCE FOR MAX OUTPUT is not always greater than DISTANCE FOR MIN OUTPUT. The following rule defines which is greater:

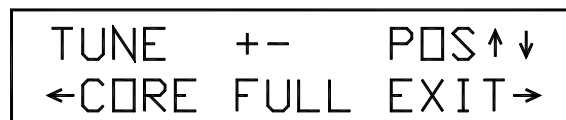
**RULE:** When the clutch or brake is at maximum torque, the dancer arm will move from the DISTANCE FOR MAX OUTPUT toward the DISTANCE FOR MIN OUTPUT.

Enter POSITION SETPOINT. If Auto Position is not being used, the dancer will not stay exactly at this position. Re-adjustment may be needed later.



**Tuning**

The screen below is the Tuning screen. Pressing ← or → when in this screen chooses CORE, FULL, or EXIT. Pressing ↑ or ↓ adjusts the dancer position (if necessary). Pressing + or – adjusts the tuning (+ will increase the stability and – will increase the responsiveness.)



In the following steps, the words + (FULL) means to press + when FULL is selected, - (FULL) means to press - while FULL is selected, etc. To select (FULL) or (CORE) move the cursor using the ← and →

NOTE: The next step requires that the machine be running near core. If this is an unwind you may mount a small roll, or you may continue to unwind until the roll approaches core. Select CORE. If the dancer position oscillates at any time during the unwind press + (CORE) until the oscillations stop.

With a small roll (near core) mounted, run the machine at a low speed. If the dancer position is oscillating, press + (CORE) until the oscillations stop. Adjust the dancer position using ↑ or ↓ if necessary.

If the dancer does not oscillate, press - (CORE) until the dancer position begins to oscillate, and then press + (CORE) until the oscillations stop.

NOTE: The next step requires that the machine be running near full roll. If this is a rewind, you may mount a full roll, or you may continue to wind until the roll approaches full. Select FULL. If the dancer position oscillates at any time during the wind, press + (FULL) until the oscillations stop.

Run the machine at a low speed near full roll. If the dancer position is oscillating, press + (FULL) until the oscillations stop. If dancer position is not oscillating, press - (FULL) until the dancer position begins to oscillate, and then + (FULL) until oscillations stop.

Tuning is complete. Select EXIT and press ↓. This screen shows the condition of AUTO POSITION. It will normally be ON after tuning FULL and OFF after tuning CORE. It can be turned ON or OFF using this screen, but it is best left ON.

Press HOME.

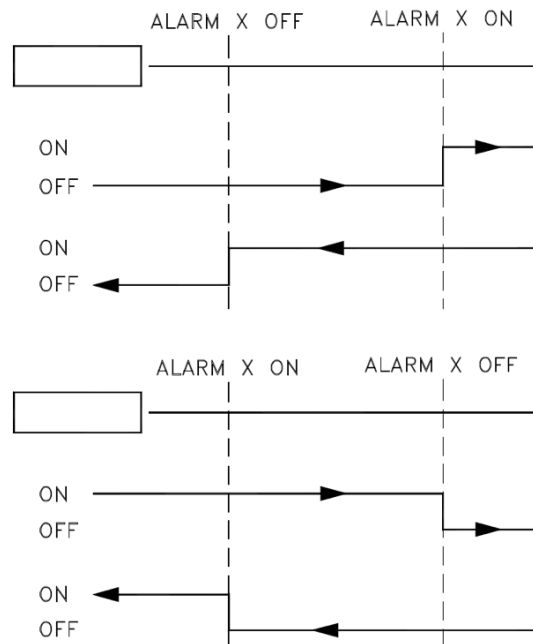
## Alarms

ALARM 1 ON DISTANCE  
ALARM 1 OFF DISTANCE  
ALARM 2 ON DISTANCE  
ALARM 2 OFF DISTANCE

Enter the desired distance at which ALARM 1 or 2 is to turn ON. The solid state relay output ALARM 1 or 2, will close whenever the displayed distance equals this value.

Enter the desired distance at which ALARM 1 or 2 is to turn OFF. The solid state relay output ALARM 1 or 2 will open whenever the displayed distance equals this value.

ALARM OFF DISTANCE is usually set to a value which is far enough away from the ALARM ON DISTANCE so that chattering of the alarm will not occur. If delay is set, alarm actuation will be delayed.



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