**Operating Manual for DC Servo motor interfaced to Uniboard**

The DC Servo motor Is interfaced to the uniboard. The motor has three basic modes of operation, which can be altered by using three external switches.

The three modes of operation are:-

1. Factory Adjustment Mode.
2. Adjustment during Normal Mode.
3. Normal Mode.
4. **Factory Adjustment Mode:-**

To enter this mode the user has to connect SW3 to ground before Power on.

Once it enters this mode, the user can adjust the motor position using SW1(CW Direction) and SW2(CCW Direction). If he removes SW3 the board shall resume normal operation(i.e from 0 to 120 degrees) after pressing the power on reset.

The user however has to press SW1 or SW2 within 10 seconds after releasing the switch. This mode is basically used to set the initial position which shall be in tandem with the mechanical design of the object to be mounted.

1. **Adjustment during Normal Mode:-**

During normal operation, if the user wishes to change the motor position he can do so by directly pressing SW1(CW Direction) and SW2(CCW Direction). The value of the degrees changed shall be automatically updated and the motor shall resume normal operation.

**Note:- In this mode the motor shall not go below 0 degrees or above 120 degrees. These values have been set in the above Mode. To change these values one has to go to Mode 1.**

1. **Normal Mode:-**

In the normal mode of operation, the motor shall move from 0 degrees to 120 degrees with a speed of 1 degree per 4 minutes.

Once it reaches 120 degrees, it shall automatically return back to its home position.

Kindly refer to the connection table for further details regarding pin connections and switch functions.

SW1 and SW2 can be double pole double throw switch which is activated when connection to ground is made.

SW3 can be a Push to on Switch which is activated once connected to ground