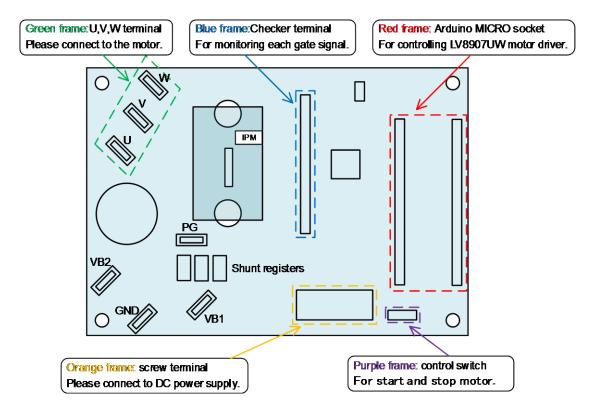


Test Procedure for the STK984-190-EGEVB Evaluation Board

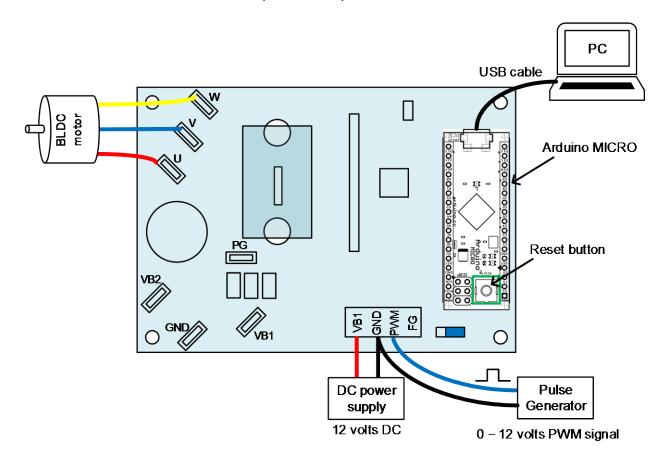
Description of each pin



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Test procedure

Check operation and zap OTP of LV8907UW.

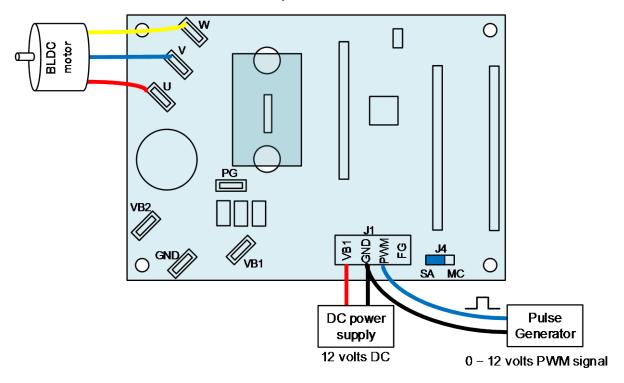


- Step 1: Install Arduino MICRO on the socket and connect PC via USB cable.
 - Note; Arduino MICRO must be installed LV8907UWEVK firmware.
- Step 2: Connect a power supply and pulse generator to J1.
- Step 3: Connect a motor to U, V and W TAB terminal.
- Step 4: Put short socket at MC side of J4.
- Step 5: Turn on the power supply and supply 12 volts.
- **Step 6**: Turn on the pulse generator and supply PWM signal. (Recommended duty ratio is 50%) (PWM signal requirement amplitude: 0 -12 volts, frequency range: 5.3-1000Hz, duty ratio; 15 85%)
- Step 7: Push reset button on Arduino MICRO.
- Step 8: Boot up LV8907UW GUI. Click "Connect" button then "Run" button.
- Step 9: Go to "OTP Map" tab menu. Click "Import" to read OTP data and click "Write" to zap LV8907UW OTP.
- Step 10: Click Disconnect SPI then motor spin off.

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Test procedure (continued)

Check operation stand-alone.

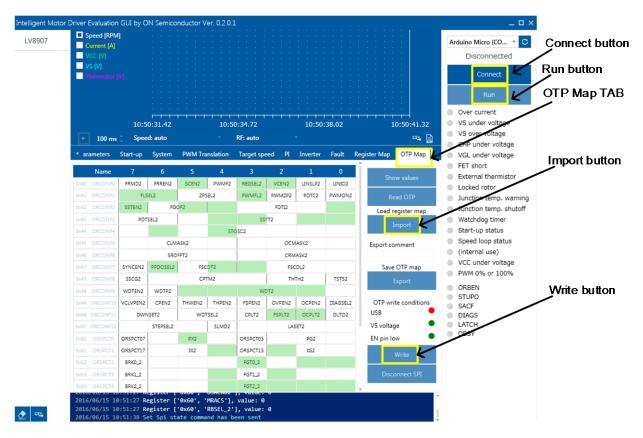


- **Step 11**: Change short socket at SA side of J4. Then spin up the motor again.
- Step 12: Turn off the power supply then remove Arduino MICRO.
- Step 13: Remove Arduino MICRO from the socket.
- Step 14: Turn on the power supply and supply 12 volts again.
- Step 15: Spin up the motor again. STK984-190-EGEVB work correctly. Test complete.

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Test procedure (continued)

LV8907UW GUI window



LV8907UW OTP data example

Address, Data --- Created: 2016-06-14 13:44, STK984-190-E EVB OTP

0x00,0x2C 0x01,0xC8 0x02,0xB1 0x03,0x1B 0x04,0x500x05,0x00 0x06,0x000x07,0x58 0x08,0x00 0x09,0x3E 0x0A,0x00 0x0B,0x06 0x0C,0x00 0x10,0x20 0x11,0x14 0x12,0x0B 0x13,0x14 0x14,0x1F 0x15,0x2A 0x16,0x35 0x17,0x40 0x18.0x4B 0x19,0x56 0x1A,0x5F 0x20,0x00 0x30,0x55 0x31,0x00

0x32,0x00 0x33,0x00 0x34,0x00 0x35,0x04

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