Calibration

After installing an MCB into any treadmill, the unit will need to be calibrated. Calibration should be done anytime parts are swapped or replaced. It is also recommended that all treadmills should be re-calibrated at least every 6 months.

Calibration procedures are as follows:

Pro Tread – Pro • Pro S • Pro IR • Elite

Enter the Maintenance Mode by pressing and holding '0', '2' and 'START' keys. While holding all 3 keys, release the '2' key only.

The unit will display "Maintenance Settings" then display "Units: English" or "Units: Metric".

Press the '8' key to enter the Motor Test Mode.

The display will read " 240 3 .0 "

Press the 'FOREST' key to start the auto-calibration. After 2-3 minutes the running belt and the numbers on the display will stop.

Press the 'STOP' key twice to exit calibration.

TR4500 • 4200 Sport • TR4000

Enter the Maintenance Mode by pressing and holding '0', '2' and 'START' keys. While holding all 3 keys, release the '2' key only.

The unit will display "Maintenance Settings" then display "Units: English" or "Units: Metric".

Press the '8' key to enter the Motor Test Mode.

The display will read " 240 3 .0 "

Press the 'HEART' key to start the auto-calibration. After 2-3 minutes the running belt and the numbers on the display will stop.

Press the 'STOP' key twice to exit calibration.

TR1800S • TR1800HRP

With the power switch turned Off, press and hold the 'Scan/Lock' key while the power switch is turned On.

As soon as the unit is On and beeps, release the 'Scan/Lock' key.

The display will read " 240 (or210) 3 .0 "

Press the 'COOL DOWN' key to start the auto-calibration.

After 2-3 minutes the running belt and the numbers on the display will stop.

Press the 'STOP' key twice to exit calibration.

TR3900 • TR3500

With the power switch turned Off, press and hold the 'Display/Scroll' key while the power switch is turned On. As soon as the unit is On and beeps, release the 'Display/Scroll' key.

The display with read " t ES t " and will scroll through a few sets of numbers.

When the display reads " t ES t " again, press the 'START' key to start the auto-calibration.

After 2-3 minutes the running belt will begin to slow and the elevation system will incline up a few degrees, then decline back down to 0%.

Press the 'STOP' key twice to exit calibration.

Troubleshooting

Symptom: Treadmill does not calibrate (Runs to around 9 mph and holds) **Action**: Verify jumper settings

Symptom: After pressing 'START' the units gives a display code **Action**: Troubleshoot code http://support.startrac.com

Symptom: Auto-transformer smoked with J8 in place (See Figure 2) **Action**: Replace part.

110 Volt Configuration with a Filter Network

Black or Grey Magnetec Motor or a Blue Pac Sci (Pacific Scientific) Motor

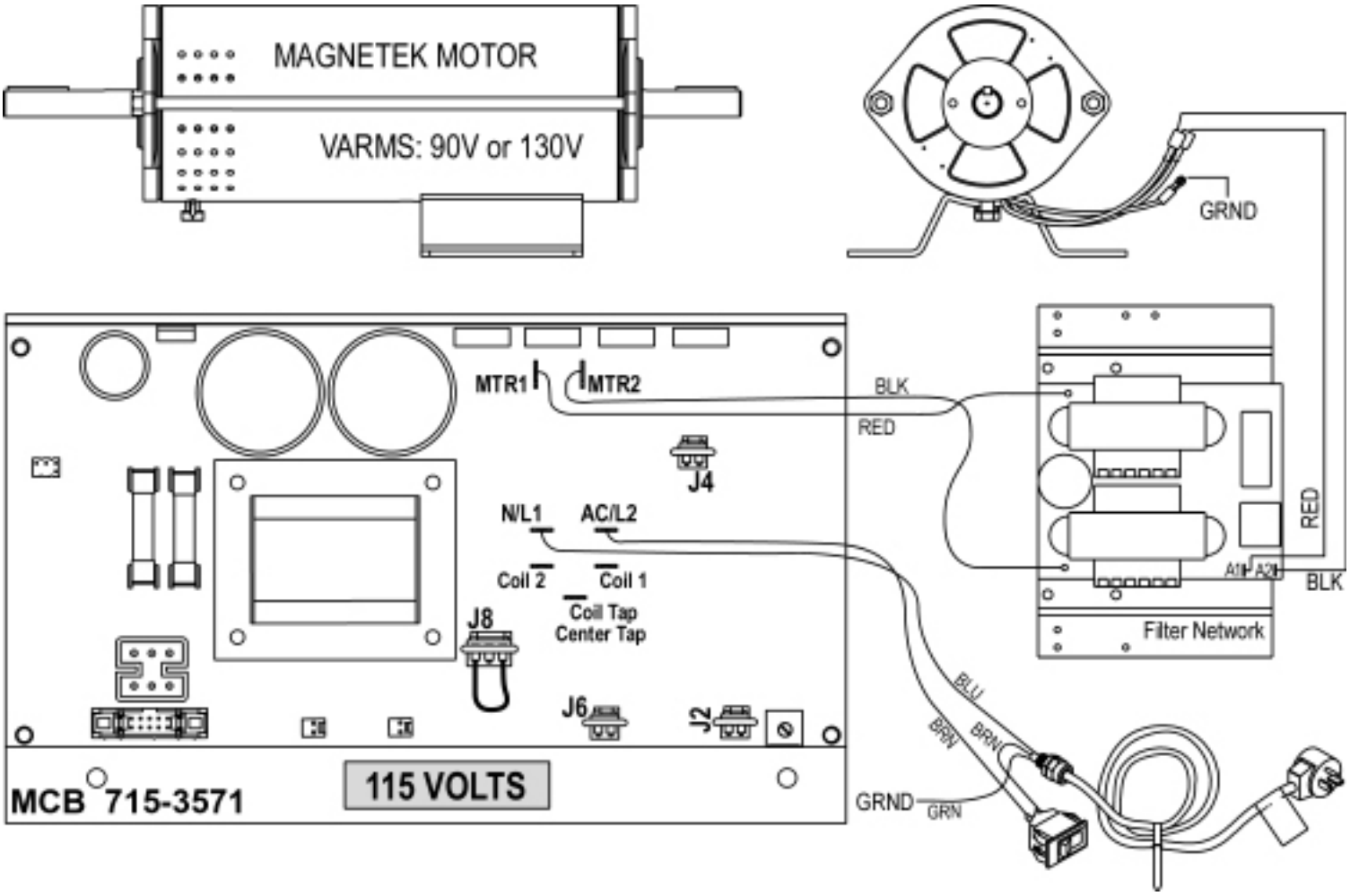


Figure 1: 715-3571 MCB WIRING DIAGRAM WITH 110 VOLT MAGNETEK MOTOR 260-0904

Note: Units that still have the Blue Pac Sci motors will use this configuration.

Key Configuration Points

- **Remove** the jumpers from **J2**, **J4** and **J6**.
- **Leave** the orange jumper on **J8**.
- Even though there are terminals for an autotransformer (Coil 1, Coil 2, Coil Center Tap), they will not be used on this configuration.

A new MCB 715-3571 will come with jumpers pre-installed on J2, J4, J6 and J8.

220 Volt Configuration with a Filter Network

Black or Grey Magnetec Motor or a Blue Pac Sci (Pacific Scientific) Motor

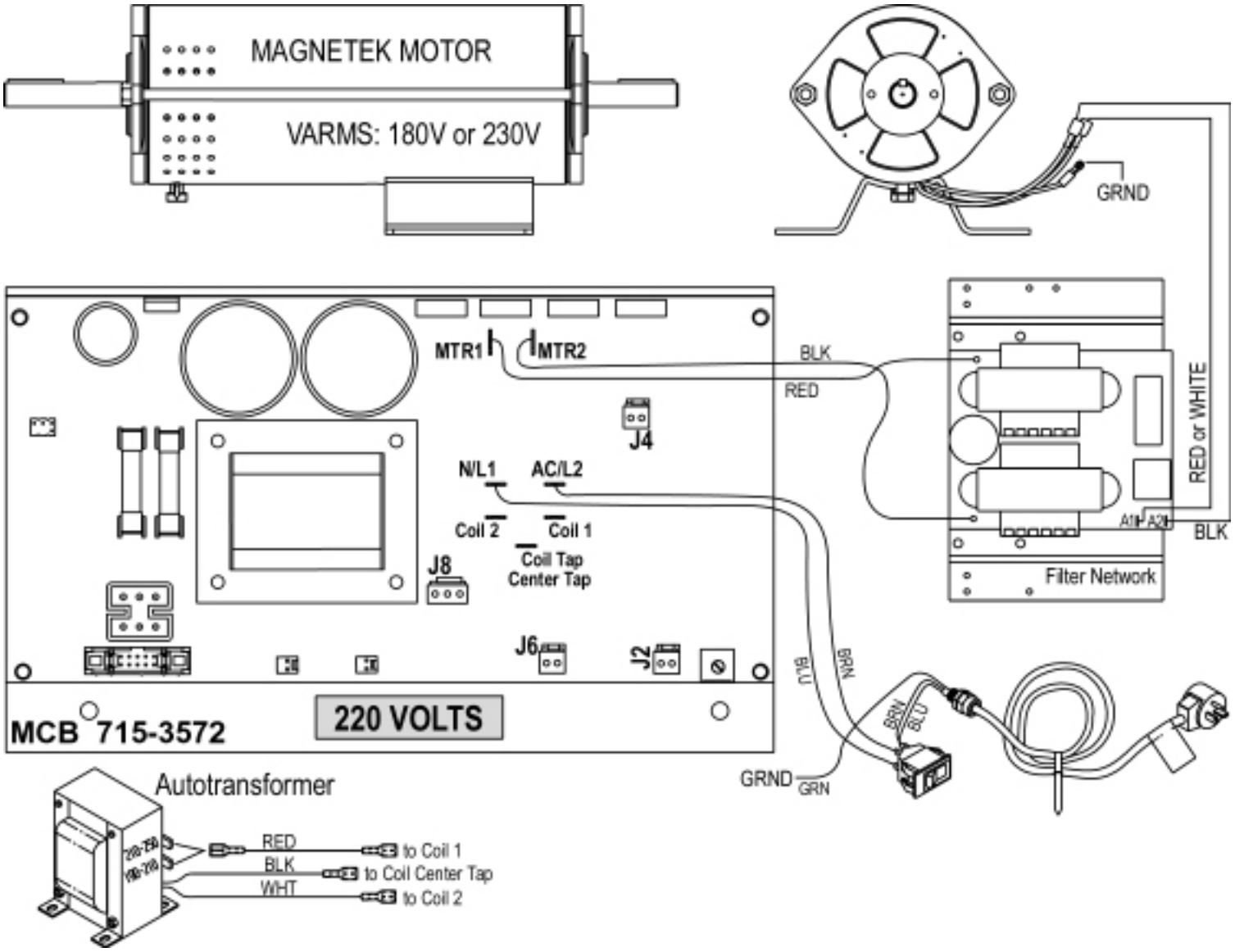


Figure 2: 715-3572 MCB WIRING DIAGRAM WITH 220 VOLT MAGNETEK MOTOR 260-0905

Note: Units that still have the Blue Pac Sci motors will use this configuration.

Key Configuration Points

- **Remove** the jumpers from **J2**, **J4** and **J6**.
- **Remove** the orange jumper from **J8**.
- Install the autotransformer wires
  - **RED** wire onto **COIL 1**
  - **WHT** wire onto **COIL 2**
  - **BLK** wire onto **COIL CENTER TAP**.

A new MCB 715-3572 will come with jumpers pre-installed on J2, J4, J6 and J8.

110 Volt Configuration without Filter Network

Black Leeson Motor Only

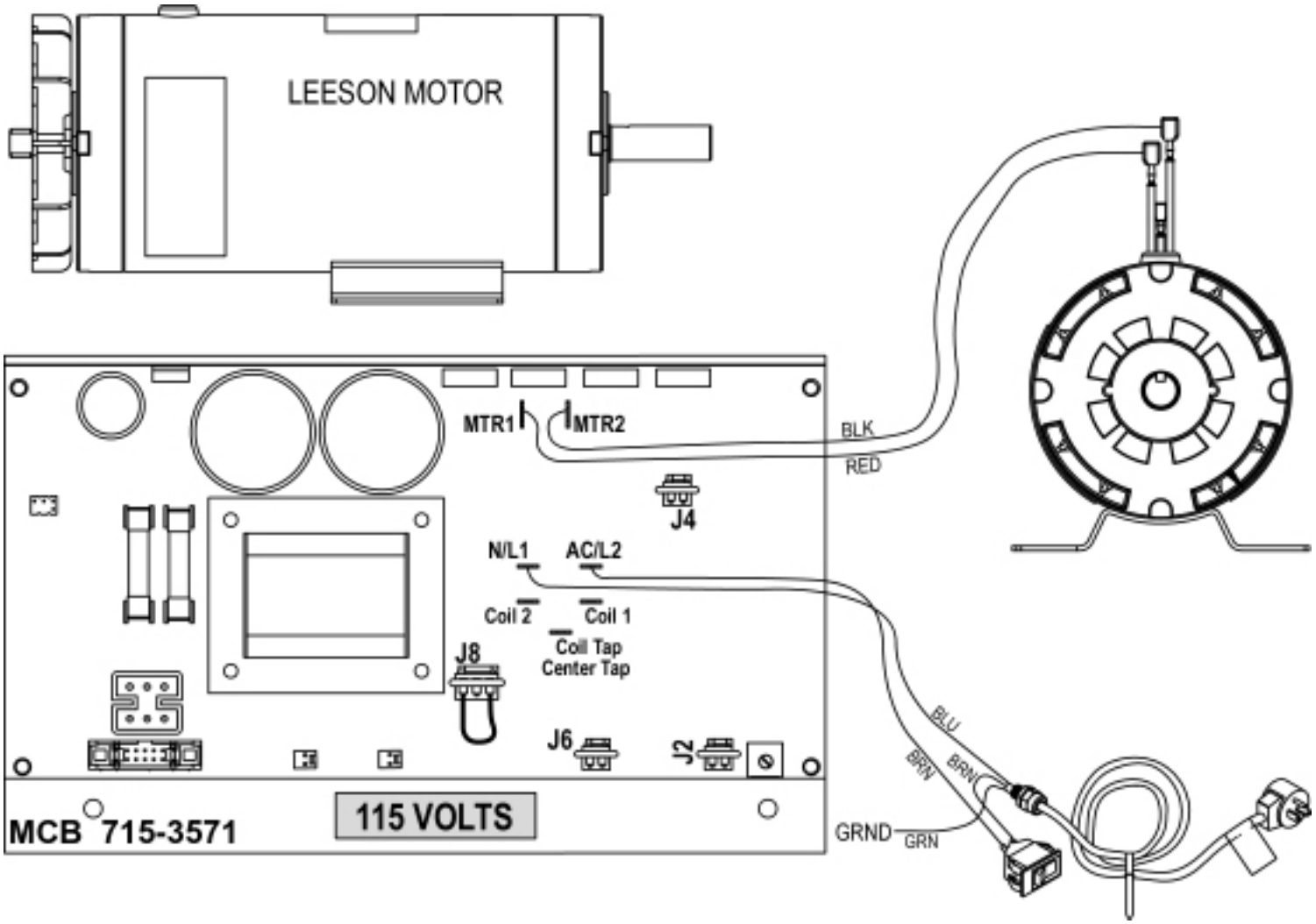


Figure 3: 715-3571 MCB WIRING DIAGRAM WITH 110 VOLT LEESON MOTOR 260-0926

Key Configuration Points

- **Leave** the jumpers on **J2**, **J4** and **J6**.
- **Leave** the orange jumper on **J8**.
- Even though there are terminals for an autotransformer (Coil 1, Coil 2, Coil Center Tap), they will not be used on this configuration.

A new MCB 715-3571 will come with jumpers pre-installed on J2, J4, J6 and J8.

220 Volt Configuration without Filter Network

Black Leeson Motor Only

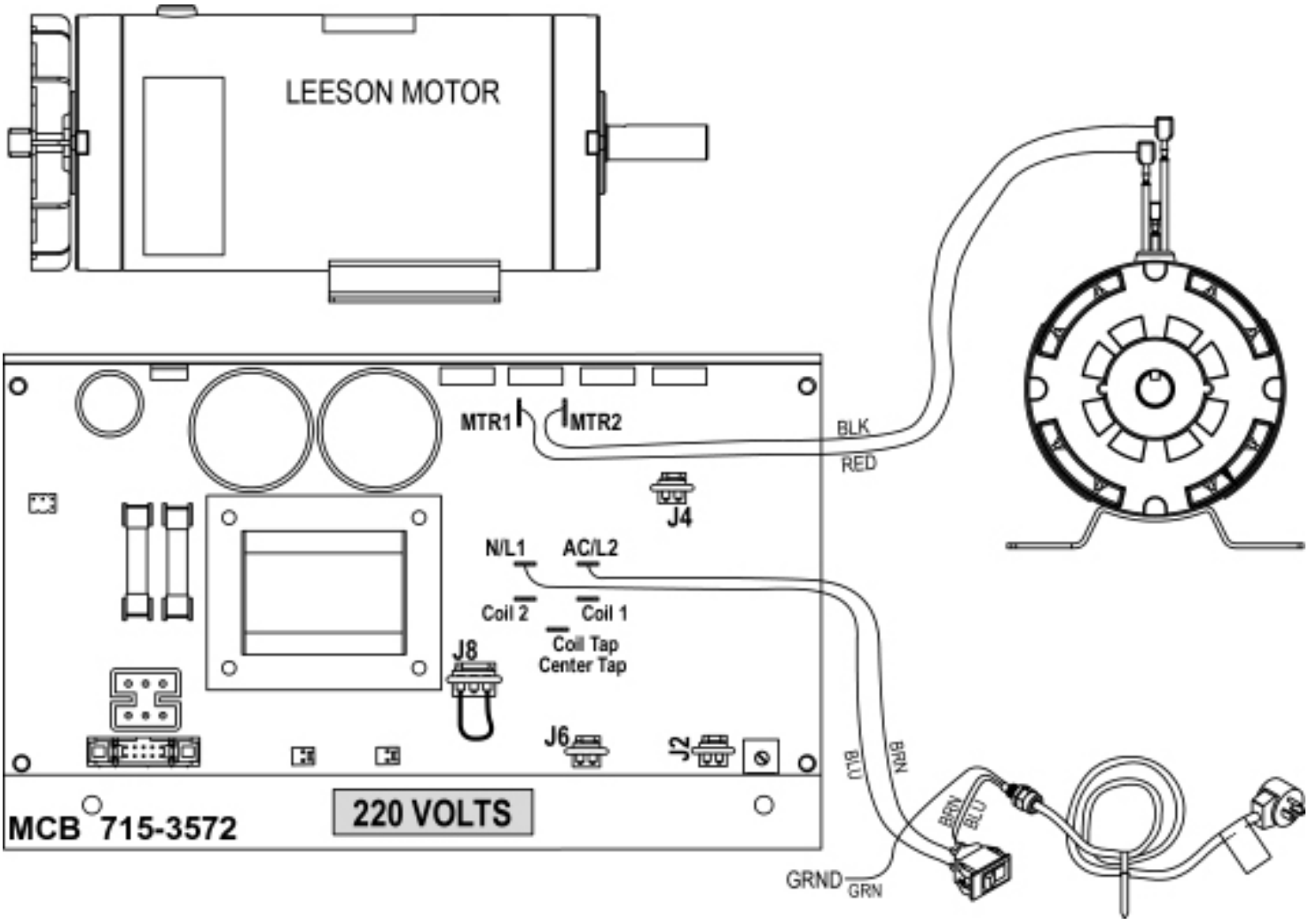


Figure 4: 715-3572 MCB WIRING DIAGRAM WITH 220 VOLT LEESON MOTOR 260-0927

Key Configuration Points

- **Leave** the jumpers on **J2**, **J4** and **J6**.
- **Leave** the orange jumper on **J8**.
- Even though there are terminals for an autotransformer (Coil 1, Coil 2, Coil Center Tap), they will not be used on this configuration.

A new MCB 715-3572 will come with jumpers pre-installed on J2, J4, J6 and J8.