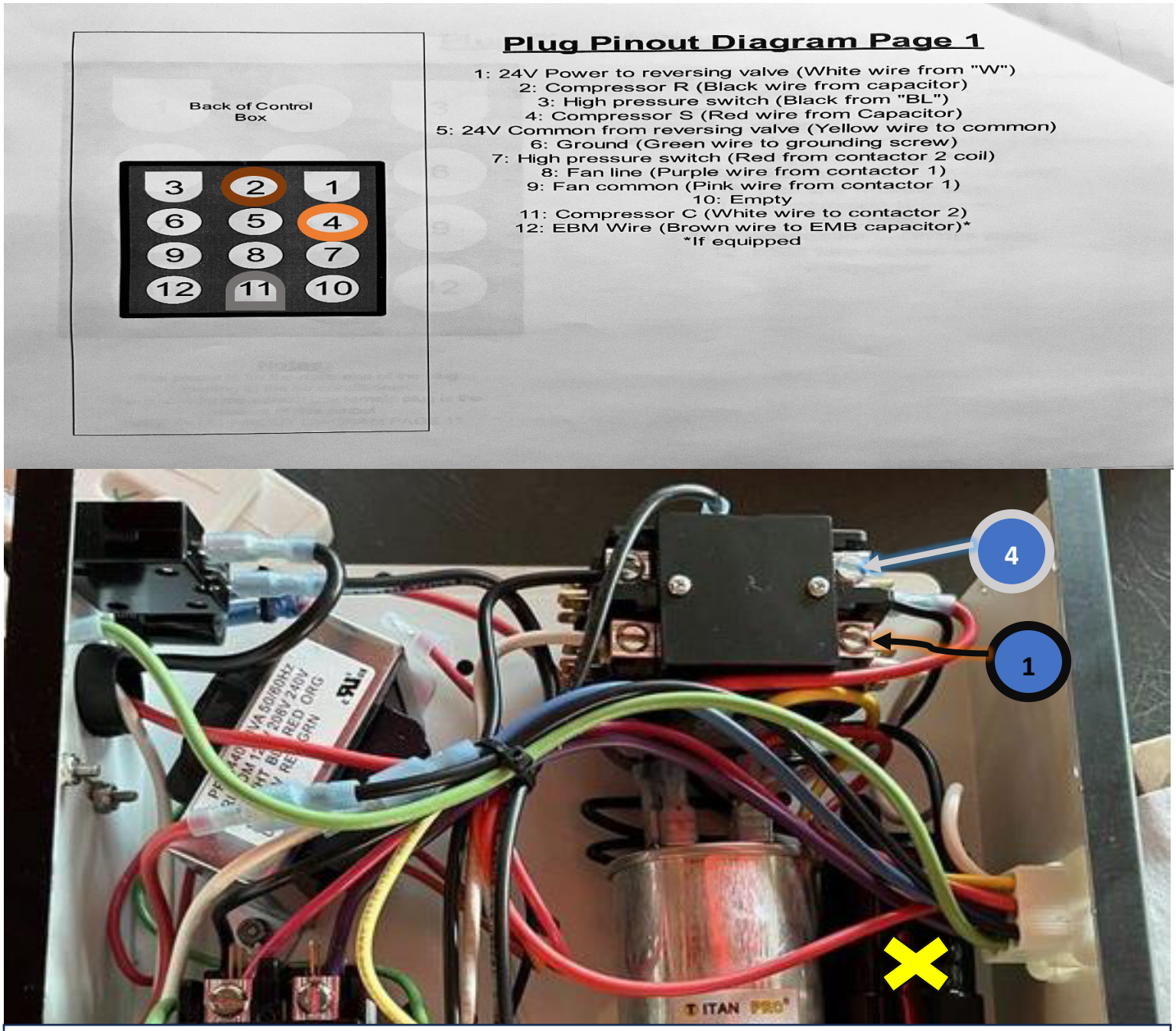
Mermaid M3-24 Dual Voltage ES Wiring



Plug Pinout Diagram Page 1

1: 24V Power to reversing valve (White wire from "W")
2: Compressor R (Black wire from capacitor)
3: High pressure switch (Black from "BL")
4: Compressor S (Red wire from Capacitor)
5: 24V Common from reversing valve (Yellow wire to common)
6: Ground (Green wire to grounding screw)
7: High pressure switch (Red from contactor 2 coil)
8: Fan line (Purple wire from contactor 1)
9: Fan common (Pink wire from contactor 1)
10: Empty
11: Compressor C (White wire to contactor 2)
12: EBM Wire (Brown wire to EMB capacitor)*
*If equipped

There is a hard start capacitor (yellow X) with two black wires. Both should be followed and removed from the run capacitor and secured away or removed entirely

1) The contactor closest to the run capacitor top is the compressor contactor. The side of the contactor closest to the upper right corner of the case is the output side, with red, black, and white wires. The white wire is compressor common (C), so the Easy Start Black wire will be connected under the screw terminal

2) A black wire comes in from the 3x4 connector (pin #2) and goes to the top of the run capacitor. This is compressor run (R) and should be disconnected from the run capacitor and spliced **with** the Easy Start Brown wire

3) A red wire comes in from the same 3x4 connector (pin #4) and goes to the top of the run capacitor. This is compressor start (S) (herm) and so the Easy Start Orange wire is be connected next to it.

4) Easy Start White wire will go on the compressor contactor output side with the red and black wire, connected under the screw terminal