

SERVICE AND APPLICATION NOTES

July 17, 2009

H-09-3

ECB40-12.5CB and ECB40-15CB Electric Heat Circuit Breaker Wiring Issue

It has been discovered that the above electric heat sections were wired incorrectly at the factory. Some of the electric elements were wired to the wrong circuit breaker. The result is one circuit breaker is under loaded, and the other is overloaded. This could cause nuisance circuit breaker trips. It is not a safety issue. Table 1 lists the affected models. The correct and incorrect circuit breaker wiring is shown in figures 1 and 2.

ECB40-12.5CB - Has two breakers (30 and 45 AMP)

Incorrect Wiring:

The 30 AMP circuit breaker electric heat section has elements HE1 and HE2 plus the plug in for the control board on this circuit. The 45 AMP circuit breaker has the element HE3 on this circuit.

Correct Wiring:

The 30-AMP circuit breaker should have the element HE1 and the plug in for the control board. The 45 AMP circuit breaker should have elements HE2 and HE3 on this circuit.

ECB40-15CB - Has two breakers (35 and 60 AMP)

Incorrect Wiring: The 35 AMP circuit breaker has elements HE1 and HE2 plus the plug in for the control board on this circuit. The 60 AMP circuit breaker has elements HE2 and HE3 on this circuit.

Correct Wiring: The 35 AMP circuit breaker should have element HE1 and the plug in for the control board.

The 60 AMP circuit breaker should have elements HE2 and HE3 on this circuit.

Table 1

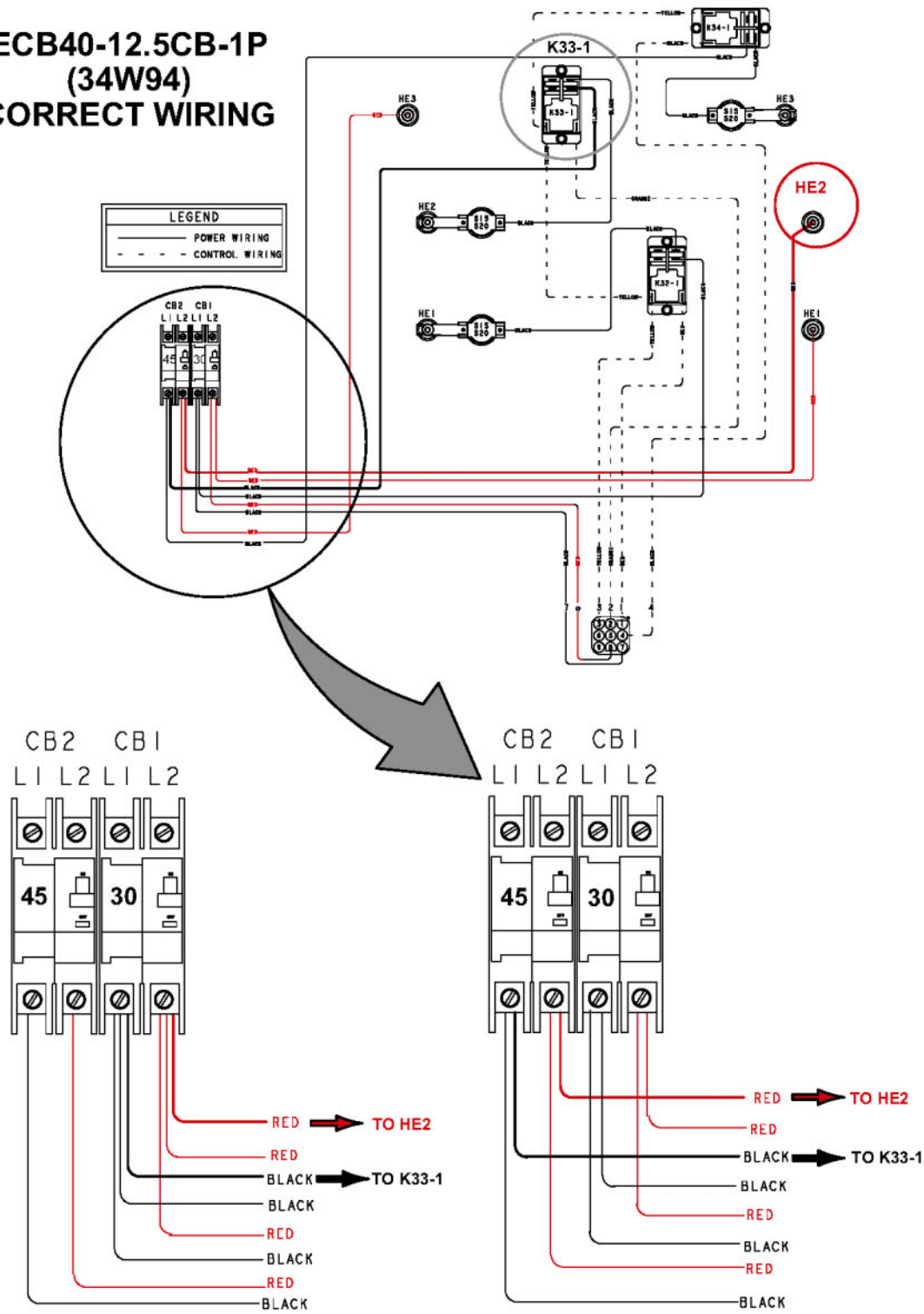
Catalog Number	Model Number	Serial Number Range	
		Start	Stop
34W94	ECB40-12.5CB	3009B04019	3009B04036
34W94	ECB40-12.5CB	3009B05398	3009B05415
34W94	ECB40-12.5CB	3009C06884	3009C06901
34W94	ECB40-12.5CB	3009D10490	3009D10526
34W95	ECB40-15CB	3009B03983	3009B04018
34W95	ECB40-15CB	3009B05452	3009B05487
34W95	ECB40-15CB	3009C06704	3009C06775
34W95	ECB40-15CB	3009D09846	3009D09917
34W95	ECB40-15CB	3009E14955	3009E14990
34W95	ECB40-15CB	3009F16475	3009F16510

Factory Corrective Action: The miswiring issue was corrected on June 24th, 2009. The Operating Instructions Sheets (OIS) on the assembly line were corrected to show proper circuit breaker wiring.

Field Corrective Action: Verify correct high voltage circuit breaker wiring from each element. See figures 1 and 2.



**ECB40-12.5CB-1P
(34W94)
CORRECT WIRING**



**ECB40-12.5CB-1P
(34W94)
INCORRECT WIRING**

**ECB40-12.5CB-1P
(34W94)
CORRECT WIRING**

FIGURE 1

**ECB40-15CB-1P
(34W95)
CORRECT WIRING**

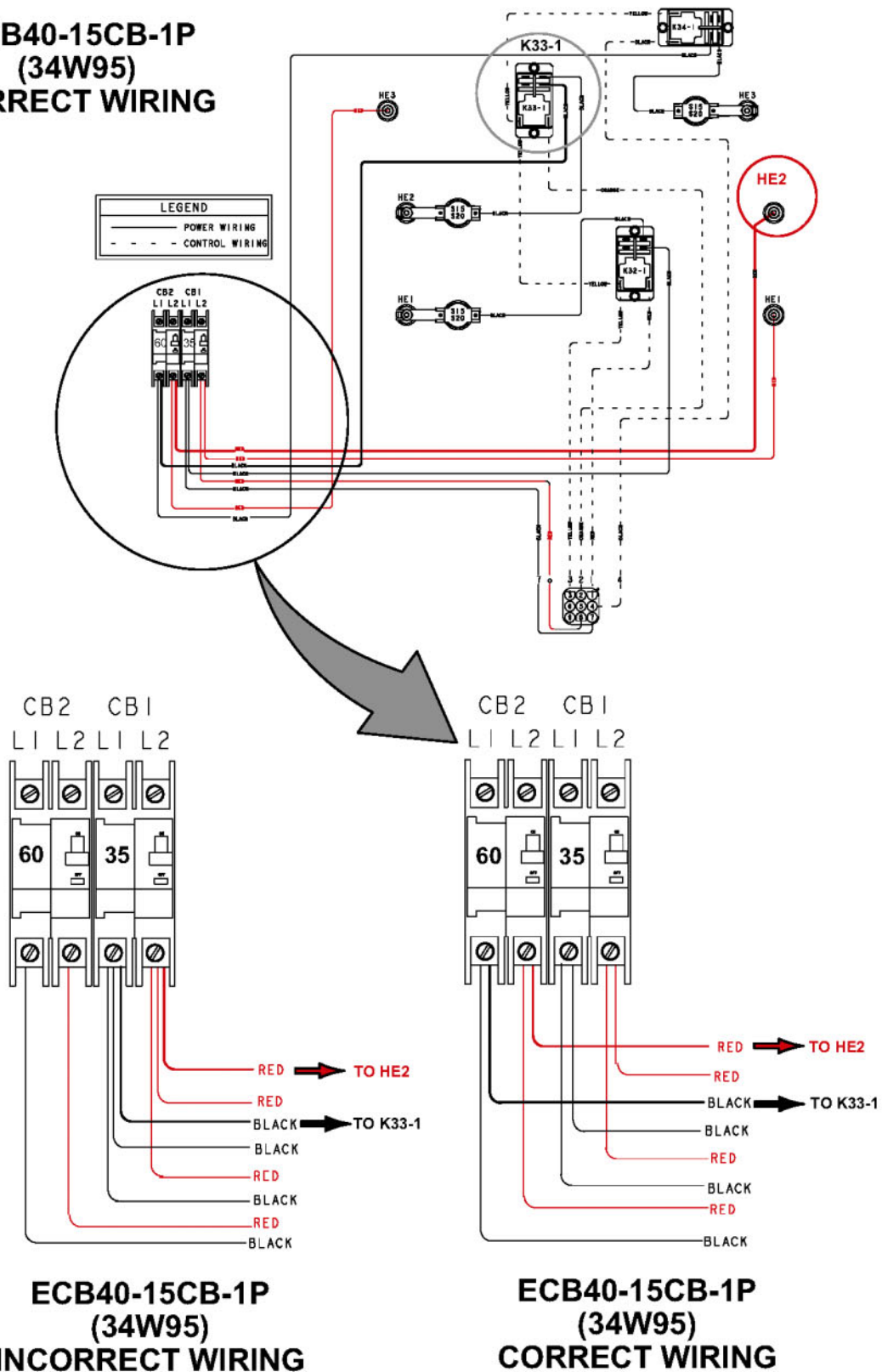


FIGURE 2