

Regulating Voltage Single Phase

Connection instructions for the Cutler Hammer 12/24 or 16/32 Buck and Boost Transformers .5kva, .75kva, 1.0kva, 1.5kva, 2.0kva and 3.0kva to all single-phase Heartland equipment.

To Buck Voltage (12/24 -12V) or (16/32 -16V)

1. Connect two ground leads together and fasten to bolt on buck booster unit.
2. Connect **BLACK** lead from wall to **BLACK** lead from bed to H4.
3. Connect H2 to H3.
4. Connect H1, X2 and X4 to **RED** lead from bed.
5. Connect X1 and X3 to **RED** lead from wall.

To Buck Voltage (12/24 -24V) or (16/32 -32V)

1. Connect two ground leads together and fasten to bolt on buck booster unit.
2. Connect **BLACK** lead from wall to **BLACK** lead from bed to H4.
3. Connect X2 to X3.
4. Connect H2 to H3.
5. Connect H1 and X4 to **RED** lead from bed.
6. Connect X1 to **RED** lead from wall.

To Boost Voltage (12/24 +12V) or (16/32 +16V)

1. Connect two ground leads together and fasten to bolt on buck booster unit.
2. Connect **BLACK** lead from wall to **BLACK** lead from bed to H4.
3. Connect H2 to H3.
4. Connect H1, X2 and X4 to **RED** lead from wall.
5. Connect X1 and X3 to **RED** lead from bed.

To Boost Voltage (12/24 +24V) or (16/32 +32V)

1. Connect two ground leads together and fasten to bolt on buck booster unit.
2. Connect **BLACK** lead from wall to **BLACK** lead from bed to H4.
3. Connect H2 to H3.
4. Connect X2 to X3.
5. Connect X4 and H1 to **RED** lead from wall.
6. Connect X1 to **RED** lead from bed.

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Connection instructions for the Cutler Hammer 12/24 or 16/32 Buck and Boost Transformers .5kva, .75kva, 1.0kva, 1.5kva, 2.0kva and 3.0kva to all 3-phase Heartland equipment.

To Buck Voltage (12/24 -12V) or (16/32 -16V)

1. **TRANSFORMER #1**
2. Connect two ground leads together and fasten to bolt on buck booster unit.
3. Connect **BLACK** lead from wall to **BLACK** lead from bed to H4.
4. Connect H2 to H3.
5. Connect H1, X2 and X4 to **RED** lead from bed.
6. Connect X1 and X3 to **RED** lead from wall.
7. **TRANSFORMER #2**
8. Connect two ground leads together and fasten to bolt on buck booster unit.
9. Connect **BLACK** lead from wall to **BLACK** lead from bed to H4.
10. Connect H2 to H3.
11. Connect H1, X2 and X4 to **BLUE** lead from bed.
12. Connect X1 and X3 to **BLUE** lead from wall.

To Buck Voltage (12/24 -24V) or (16/32 -32V)

1. **TRANSFORMER #1**
2. Connect two ground leads together and fasten to bolt on buck booster unit.
3. Connect **BLACK** lead from wall to **BLACK** lead from bed to H4.
4. Connect X2 to X3.
5. Connect H2 to H3.
6. Connect H1 and X4 to **RED** lead from bed.
7. Connect X1 to **RED** lead from wall.
8. **TRANSFORMER #2**
9. Connect two ground leads together and fasten to bolt on buck booster unit.
10. Connect **BLACK** lead from wall to **BLACK** lead from bed to H4.
11. Connect X2 to X3.
12. Connect H2 to H3.
13. Connect H1 and X4 to **BLUE** lead from bed.
14. Connect X1 to **BLUE** lead from wall.

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3 Phase Page 2

To Boost Voltage (12/24 +12V) or (16/32 +16V)

1. TRANSFORMER #1

2. Connect two ground leads together and fasten to bolt on buck booster unit.
3. Connect **BLACK** lead from wall to **BLACK** lead from bed to H4.
4. Connect H2 to H3.
5. Connect H1, X2 and X4 to **RED** lead from wall.
6. Connect X1 and X3 to **RED** lead from bed.

7. TRANSFORMER #2

8. Connect two ground leads together and fasten to bolt on buck booster unit.
9. Connect **BLACK** lead from wall to **BLACK** lead from bed to H4.
10. Connect H2 to H3.
11. Connect H1, X2 and X4 to **BLUE** lead from wall.
12. Connect X1 and X3 to **BLUE** lead from bed.

To Boost Voltage (12/24 +24V) or (16/32 +32V)

1. TRANSFORMER #1

2. Connect two ground leads together and fasten to bolt on buck booster unit.
3. Connect **BLACK** lead from wall to **BLACK** lead from bed to H4.
4. Connect H2 to H3.
5. Connect X2 to X3.
6. Connect X4 and H1 to **RED** lead from wall.
7. Connect X1 to **RED** lead from bed.

8. TRANSFORMER #2

9. Connect two ground leads together and fasten to bolt on buck booster unit.
10. Connect **BLACK** lead from wall to **BLACK** lead from bed to H4.
11. Connect H2 to H3.
12. Connect X2 to X3.
13. Connect X4 and H1 to **BLUE** lead from wall.
14. Connect X1 to **BLUE** lead from bed.