

High Intensity Heater Instruction Sheet

DSI SUB KIT-24V & 120V Installation

Models Affected[^]

N, N-2, NE, NE-2, NSP-2,
NSP-4, NSPI-8, NSPI-9, NFS,
PFS, PSPI-9, NGCI-3, NMV, PMV

WARNING



The following conversion **MUST** be performed by a qualified service person. Contact the factory with any questions.

[^] Gas valves on NMV, PMV models are NOT compatible with DSI SUB-KIT and must be replaced.

DSI SUB KIT-24V Contents

- Circuit board (P/N: MARK 10DX-24)
- Wiring harness (P/N: DRWH-24)
- High voltage spark wire (P/N: HVW-18)
- 3-prong spark electrode (P/N: 32-508)
- Electrode mounting bracket (P/N: DR-EMB)
- Pilot plug (P/N: DR-PP)*
- Junction box top (P/N:PJBT) and bottom (P/N:PJBB)
- Self-drill screws (Qty. 4)

DSI SUB KIT-120V Contents

- Circuit board (P/N: MARK 10DX-117)
- Wiring harness (P/N: DRWH-120)
- High voltage spark wire (P/N: HVW-18)
- 3-prong spark electrode (P/N: 32-508)
- Electrode mounting bracket (P/N: DR-EMB)
- Pilot plug (P/N: DR-PP)*
- Junction box top (P/N:PJBT) and bottom (P/N:PJBB)
- Self-drill screws (Qty. 4)

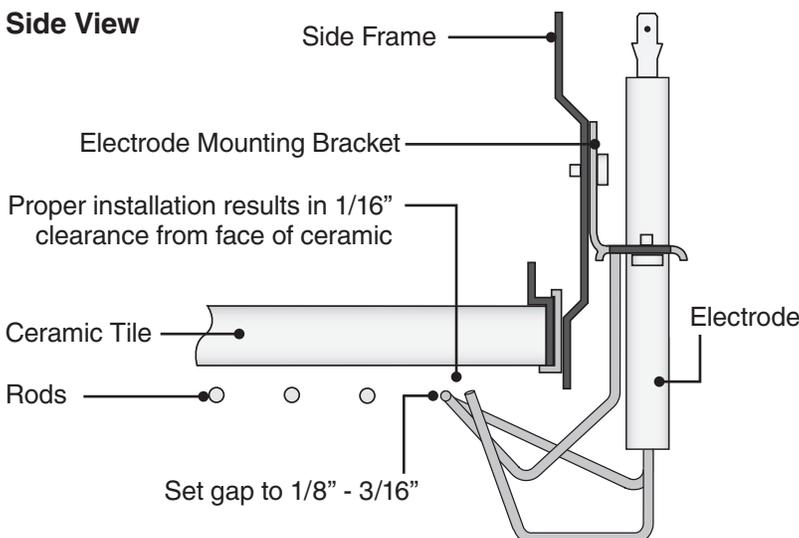
NOTE: Replaced/converted parts are not returnable for credit.

Installation Instructions

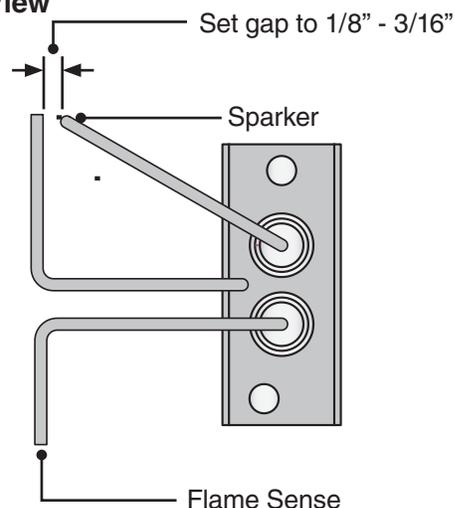
- 1 Open electrical circuit to heater and shut off gas supply to heater.
- 2 Remove faulty components.
- 3 Remove the pilot burner* and gas tubing. **NOTE:** Valve pilot plug* must be installed and checked for leaks.
*The pilot plug (P/N: DR-PP) is for use only when converting a pilot type ignition system. Discard when not required.
- 4 Mount heater control box to the lower frame using the mounting tabs and self-drill screws. Figure 4 or 5.
- 5 Mount the electrode onto the heater's side frame as shown in Figure 1.
NOTE: One of the rods may have to be cut in order to fit the spark assembly in place.
- 6 Wire the heater according to the appropriate wiring diagram for your heater's voltage. See Figures 2 or 3.
NOTE: When anchoring junction box to unit, place the ground wire between box and heater.

Figure 1 • 32-508 Spark Electrode Mounting

Side View



Top View



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Figure 2 • MARK 10DX-24 Wiring Diagram (24V)

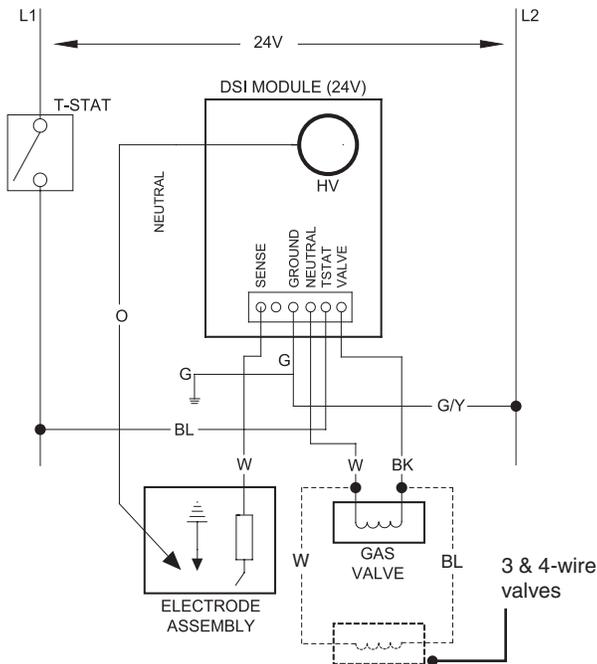


Figure 3 • MARK 10DX-117 Wiring Diagram (120V)

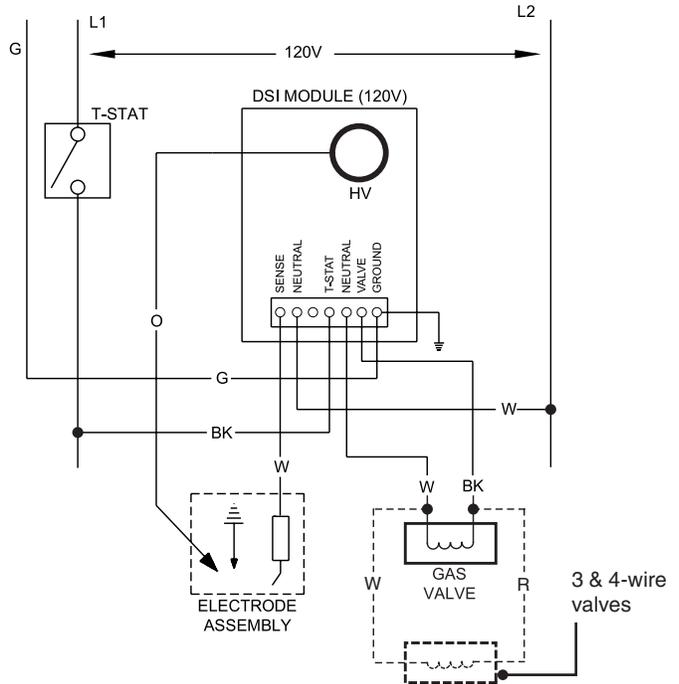


Figure 4 • DR 60-160 Models

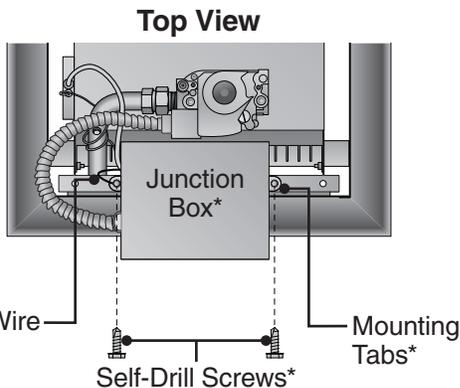
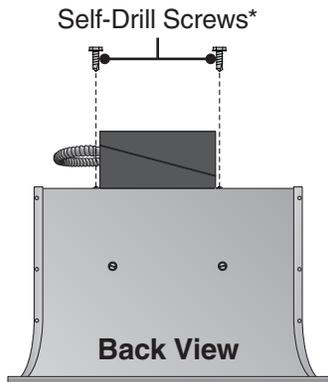
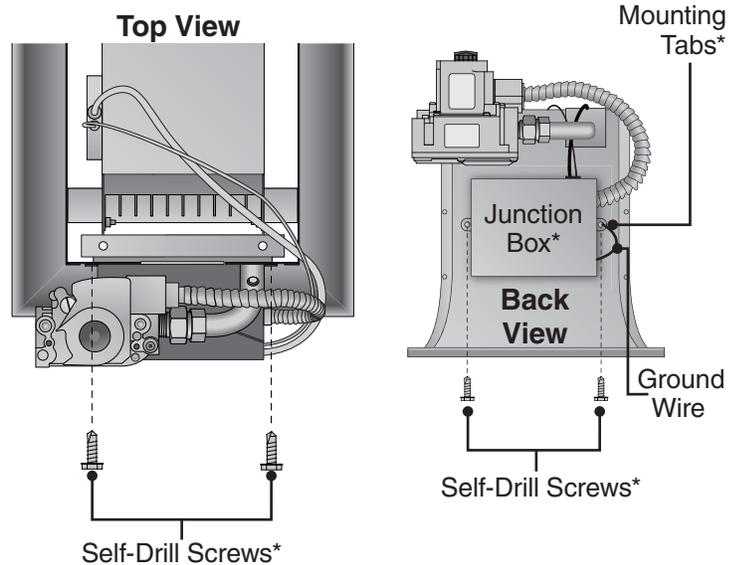


Figure 5 • DR 30 Models



***IMPORTANT:** When mounting the Junction Box to the heater, **do not** tap into the gas manifold.