Installation | 4055 Igniters

4055 IGNITER INSTALLATION and OPERATION NOTES

— The spark should be maintained through the trial for ignition interval and then de-energized by the Burner Management System.

— Since sparks produce ultraviolet (UV) light, they can often be detected by UV flame supervision equipment, an ignition timer must be used to keep the spark igniter on through the trial for ignition interval to give the main flame time to light.

— The igniter body must be connected to the system ground for the spark to form reliably and to prevent a hazardous electrical shock condition for personnel.

— When picking a 4085 ignition cable, the "N" style standard 90° boot is a good fit for most 4055 electrodes. The ceramic insulator is too large in diameter for a type "W" boot.

— The 4055 can be used as an alternative to the standard 10mm spark plug in the 4442 burner by installing it in the OBS port. To provide replacement flame observation, install a pipe tee in the gas inlet with an in-line gas tight observation port.

— Many North American igniters are made with common electrodes. Use the bulletin to find the replacement electrode part numbers, and not the number on the electrode.

PRODUCTS THAT COMPLIMENT THE 4055

4065/4066

Ignition transformers are used to create the high voltages required to generate a spark in industrial igniters. Most ignition transformers have a secondary voltage of 6000 volts (6 kV). 4065 transformers operate with 120VAC on the primary, and 4066 transformers require 240 VAC.

4085

Ignition cables connect ignition transformers to industrial spark igniters. They are capable of operating at the elevated temperatures common around industrial combustion equipment. They can be configured for length and to match the connection style of the transformer and the spark plug.

4085-ERA cables connect to 4055-ERA igniters with the aircraft style ¾" - 20 threaded connection with the 1½" internal contact depth.

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