

Bridge Plug

Any permanent, retrievable or high expansion bridge plug which is run on a standard pyrotechnic setting tool can be set using the Combined Trigger Unit (CTU) without the need for radio silence.

The tool consists of three main components: electronic trigger, surface safety switches and pyrotechnic setting tool and plug.

Electronic Trigger

The electronics package controls the output from a battery pack. This initiates the pyrotechnic igniter only when all safety barriers are overcome, and downhole parameters are such that they satisfy the pre-programmed firing sequence.

Surface Safety Switches

Individual mechanical pressure and temperature switches form short circuits across the detonator to ensure surface safety. Well pressure and temperature 'open' the switches at a pre-determined depth and 'close' them on retrieval. These switches ensure that the device cannot fire on or near surface.

Explosive Set Plug and Setting Tool

Industry standard pyrotechnics, setting tools and plugs can be initiated by the CTU. A slickline dummy rope socket can be used to allow for fishing of stuck assemblies. A full range of setting tools are available to suit a wide range of plugs and packers.



Applications:

- Setting of Bridge Plugs, Retainers and Packers
- Water shut off
- Abandonment
- Workover

Benefits:

- Tool counts up after detonation to confirm firing time
- Tool records maximum pressure and temperature
- Uses industry standard tools and pyrotechnics
- No radio silence required
- No e-line rig up required
- Reduced personnel
- Release tool available if stuck