ControlFire®



Copyright © 2014 Hunting Titan. All Rights Reserved.

OCKFT

R

M

Α

Titan ControlFire[®] Shooting Power Supply User Manual

Table of Contents

1.0	Equipment Overview	5
2.0	ControlFire [®] Shooting Panel and Switch Specifications	9
3.0 L	og, Aux and CCL Operation	. 10
4.0	ARM Mode Operation	. 10
4.1	Select Fire Instructions (Positive / Negative)	. 10
4.2	Dump Fire Instructions (Positive / Negative)	. 11
5.0	Installing Software for ControlFire [®] Perforating Panel	. 11
5.1	Installing GUI Program	. 11
5.2	Installing USB Virtual Com Port Driver	. 15
6.0	Installing ControlFire [®] Perforating Panel on Logging Truck	. 15
7.0	ControlFire [®] Operation	. 17
5.1	Starting the ControlFire [®] Software	. 17
5.2	Setup for ControlFire [®] Operations	. 19
5	.2.1 Create New Job Folder	. 19
5	.2.2 Change W/L Settings	. 20
5	.2.3 Create a New Gun String	. 21
5	.2.4 Verify Gun String	. 24
5.3	Gun Check, Arming and Firing	. 24
5.4	Gun Skipping Operations	. 31
5	.4.1 Gun Skip using Switch Skip button in Gun Control Window	. 31
5	.4.2 Gun Skip using Verify Gun String Window	. 32

Copyright©2014 Hunting Titan

DOCKET

RM

Α

Titan ControlFire[®] Shooting Power Supply User Manual

5.5 Troubleshooting	36			
8.0 Cleaning Instructions	37			
9.0 VeriFire [®]	.38			
10.0 Gun Loading Instructions	38			
11.0 Arming Instructions	45			
12.0 ControlFire [®] Part Numbers	49			
13.0 User Agreement	49			
A1. EBS Down Hole Pin Wire Attachment	50			
A2. Software License				

Copyright©2014 Hunting Titan

DOCKET

LARM

Α

Titan ControlFire[®] Shooting Power Supply User Manual

Safety Precautions When Using ControlFire® Perf Unit

The following precautions must be followed when using the ControlFire[®] Perf Unit.

- Do NOT open the unit and try and service. If any service or repair is required the unit must be returned to the manufacturer, Hunting Titan.
- Always use the recommended AC power cord that includes a 3rd wire safety ground that connects equipment to a grounded single phase outlet.
- When replacing either the AC fuse or W/L fuse always use the exact replacement P/N.
- If equipment is not used in a manner specified by the manufacturer, safety protection may become impaired
- When in ARMCF Mode the Panel will only output Negative voltage irrespective of the polarity switch setting as the ControlFire switches fire ONLY on Negative voltage. (Firmware Version 1.18 or lower)
- When in ARMCF Mode the Panel will only output voltage based on the polarity switch setting. (Firmware Version 1.19 or higher)

Safety Symbol Explanation



Caution: Risk of danger, refer to user guide.



Warning: Electrical shock hazard.

Copyright©2014 Hunting Titan

1.0 Equipment Overview

The minimum equipment required for running a ControlFire[®] switch system is listed in Table 1

Item	Equipment Description	Titan P/N
1	ControlFire [®] Shooting Power Supply	9002-013-810-1
2	USB Cable	9002-013-017
¹ 3	Wireline Switch Simulator Panel	9002-013-610
4	ControlFire [®] Perforating Switch Rev 1.7 PCB 1.0D	9002-013-118
¹ 5	Wireline Switch Simulator Panel External Test Block	9002-013-320
	Table 1	

¹Items 3 and 5 can be used for system verification at the shop or on a job location

> ControlFire[®] Shooting Power Supply – Shown in Front View



Is a rack mounted shooting power supply panel that provides communication and control to the downhole ControlFire[®] switch string. All interface cabling is done from the rear or back of the panel. This control panel interfaces with a PC or Laptop via a "USB" connector, connects to a Shooting Power Supply output through the "LOG" connector and to a dual wireline cable via the "DRUM 1" and "DRUM 2" connectors. The Perforating Command and Control Panel is available in 3 configurations; as a portable panel, rack mount panel or integrated into a shooting power supply as a combination rack mount panel. See Section 10 for part numbers.



Front View

Copyright©2014 Hunting Titan

DOCKET



Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

