



DETAIL A

DESCRIPTION

The HPHT Time Delay Firing system is used in conjunction with any Ultra HPHT Firing System. The HPHT Time Delay System consists of the time delay hardware, an igniter and a pyrotechnic time delay fuse. The igniter will be contained in a TC-005 series detonator body. The single fuse system allows for a time of (6 minutes) between the activation of the firing head to detonation of the perforating guns. This time interval allows the bleeding off of the pressure used to activate the firing head to establish an underbalance condition or to perform another needed operation prior to perforation. In the event that a more time is required, extra fuses may be incorporated into the system using the Ultra HPHT Extended Time Delay Hardware.

Note: This hardware is to be used when downhole pressures are between 20,000 psi to 30,000 psi and the temperature is above 350°F (176°C). (Ref. Temp/Time Chart)

SPECIFICATIONS

O.D.	3.375"	85.7 MM
Make-Up Length	11.63"	29.5 mm
Max. Temperature	500°F (260°C)	
Max. Hydrostatic	30,000 psi	206 MPa

Note: The o-ring and back-up ring must be in this configuration. The curve of the back-up must be facing the o-ring.

ITEM	PART NUMBER	QTY	DESCRIPTION
--	TC-043-3375-800	--	ASSEMBLY, ULTRA HPHT TD
1	TC-043-0001-800	1	Housing, TD Ultra HPHT
2*	TC-043-0002-000	1	Support Block, 6 Minute TD Fuse
3*	TC-043-0003-800	1	Igniter Support Assembly, Ultra HPHT
4*	OOO-A569-224	1	O-Ring, Aflas, 90 Duro
5*	OOO-A569-230	1	O-Ring, Aflas, 90 Duro
6*	OB-230-2817-4PE	1	Back-up Ring, Peek
A	2-350220-1	1	Primer (explosive component)
B	51-8200-5	1	6 Minute TD Fuse, HT (explosive component)
--	TC-043-3375-899	--	Redress Kit, Alfas
--	MAN-TC-043-800	--	Manual for TC-043-3375-800

* Denotes parts that are in the redress kit TC-043-3375-899 when redressing this assembly reference manual MAN-TC-043-000 and previous page for Back-up Ring configuration.

Note: Explosive components are sold separately

The installation Tool (TC-043-0006-000 shown below and sold separately), is needed for the safe installation of the TD Fuse and Support Block into the fuse housing.

