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Issue Date: 05DEC01

ACOUSTIC FIRING DEVICE (AFD) MARK 58 MOD 0

PART NUMBER	NSN	USED BY
ADL 7455200		US NAVY Explosive Ordnance Disposal (EOD) Divers



ACOUSTIC FIRING DEVICE, MK58 MOD 0

FUNCTIONAL DESCRIPTION

- The AFD MK58 MOD 0 is part of the MARK 12 MOD 0 Acoustic Firing System (AFS). The other AFS items are: Electronics Unit Acoustic Firing Code Transmitter (AFCT) Part Number 7609848 and Projector Unit, AFCT, Part Number 7609904.
- The AFD is married to an explosive charge on the surface by US Navy EOD personnel and delivered by an EOD diver to the target. Upon command from AFCT, Mark 92 MOD 1 the AFD is utilized to deliver a firing stimulus to initiate the explosive charge and /or the explosive valve for the MK 2 MOD 0 lift balloon. Ordnance encountered may include, but is not limited to sea mines, limpet mines, torpedoes, pyrotechnics, sonobouys or bombs and missiles located underwater.
- The AFS is essentially non-magnetic equipment used in the proximity of magnetic influence ordnance. The AFS objective is to provide EOD divers with a safe firing system for underwater demolition operations.
- Manufacture and acceptance testing is in accordance with MIL - M-19595, and Drawing No. 7455285.



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QUALIFICATION	AFD is qualified for system use
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Safety	Safety pin attached to safety flag Firing pin shorting bolt
Activation	Remove safety pin. Move activation collar to ON position Verify LED illuminates or flashes
De-activation	Move activation collar to OFF position Verify LED extinguishes. Re-install safety pin
Battery voltage	8.0 VDC minimum
Pressure resistance	150 psi
Magnetic signature	Meets NAVSEA drawing no. 7455200
Housing	
Weight	
Service life	5 years
Operating life	Minimum 5 years
Maintainability	No periodic preventative maintenance required
Repairability	Unit is repairable
Reliability	0.9995 @95% +77°F

