

TEST REPORT

REVISIONS			
Revision Level	Approval	Date	Description
-			
A			Released Per ECO

ACR ELECTRONICS INC
5757 Ravenswood Road
FT. Lauderdale Fl.
(954) 981-3333



DRAWN. Bill Cox		1/14/2000
CHECKED.		
ENG Bill Cox		1/14/2000
APVD		
A	18560	Sheet 1
SIZE	CODE IDENT NO	Of 4

**IMO Resolution
809(19)
SR-103
Radio Test Report**

DRAWING NO
Test Report

REV
A

Test Report for compliance to IMO 809(19). SR-103 Survival Radio

Test Equipment

- 1) Thermatron Model f-22-CHV-15-15
- 2) IFR Communication Monitor. Model FM/AM 500 A, Calibration date 10/21/99
- 3) HP 8591E Spectrum Analyzer Calibration date 11/5/99
- 4) Test Point Application Software

Testing Report for SR-102

General

- 1) Compliance to 2.3.2 of IMO 809(19). Be capable of operation by personnel wearing gloves as specified for immersion in regulation 33 of chapter III of the 1974 SOLAS Convention.
The unit was tested wearing specified gloves above and all functions of the radio were capable of operation.



ACR ELECTRONICS INC.

CODE IDENT
NO
18560

SHEET
-2-

TEST PROCEDURE
IMO 809(19) Compliance

REV
A

- 2) Compliance to 2.3.13 of IMO 809(19). The radio is enclosed in highly visible yellow case. See Figure 1.



FIGURE 1. (SR-102 Survival radio)

Environmental Condition

- 3) Compliance to 11.0 of IMO 809(19). The equipment should so designed as to not be damaged in stowage throughout the temperature range of -30 to $+70^{\circ}\text{C}$.

The Radio was stored in $+70$ degrees environment for 24 hours then removed from the oven and

ACR ELECTRONICS INC.	CODE IDENT NO	SHEET	TEST PROCEDURE	REV
	18560	-3-	IMO 809(19) Compliance	A

tested for functionality and operating life.

- 4) Operating life is defined as per IMO 809(19) 12.4. The Primary battery should have sufficient capacity to ensure 8-hour operation at its highest rated power with a duty cycle of 1:9, This is defined as 6 second transmission, 6 seconds reception above squelch, and 48 second reception below squelch opening level.

Unit passed all parameters. Unit Complies. See Figure 2

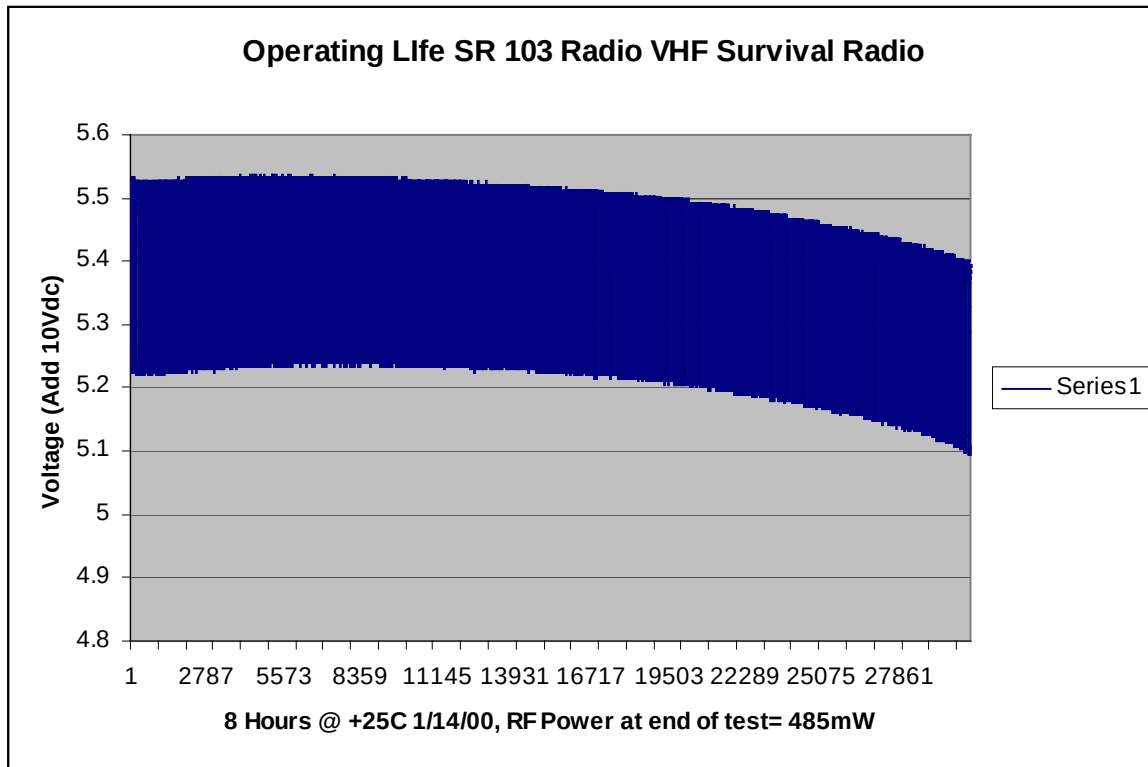


Figure 2, Operating Life Test Data SR 103 Survival Radio.

POWER SUPPLY

- 5) Compliance to 12.2 of IMO 809(19). The dedicated primary battery is shipped with a non-replaceable seal to indicate that it has not been used. See figure 3

ACR ELECTRONICS INC.

CODE IDENT
NO
18560

SHEET
-4-

TEST PROCEDURE
IMO 809(19) Compliance

REV
A

- 6) Compliance to 12.5 of IMO 809(19). The radio is fitted with a highly visible yellow primary battery. See figure 3.

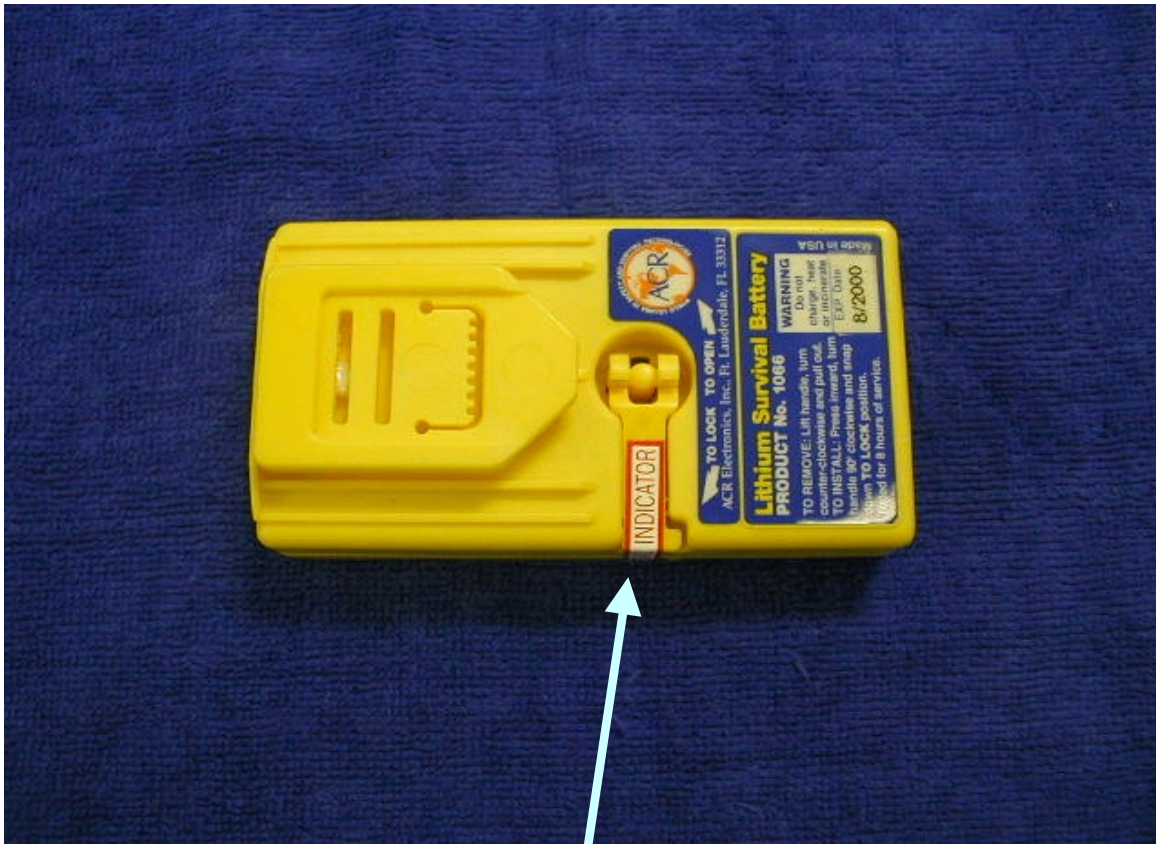


FIGURE 3. (Indicator Label on locking arm of Battery.)

- 7) Compliance to 12.6 of IMO 809(19). Batteries not intended for use in the event of a distress situation should be of a color or marking such that they cannot be confused with batteries intended for such use. The Rechargeable batteries are labeled not for GMDSS use. See Figure 4.

ACR ELECTRONICS INC.	CODE IDENT NO 18560	SHEET -5-	TEST PROCEDURE IMO 809(19) Compliance	REV A
----------------------	---------------------------	--------------	---	----------



FIGURE 4. (MaxCap Rechargeable Battery)

Test Performed By. Bill Cox, Product Engineer

ACR ELECTRONICS INC.	CODE IDENT NO 18560	SHEET -6-	TEST PROCEDURE IMO 809(19) Compliance	REV A
----------------------	---------------------------	--------------	---	----------