



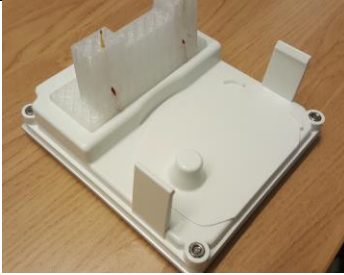








Equipment needed and/or useful to perform SBM (according to IMO MSC/ Circ.1039) on Jotron EPIRBs. All test equipment must have valid calibration certificates.

Equipment	Purpose	Jotron Part no	Models	Comment
Tron STAT suitcase	Useful tools to be used when servicing Jotron EPIRBs and SARTs	98899	<ul style="list-style-type: none"> Tron STAT suitcase 	Contains Tron UNIDEC; PRU-50 programmer, tools, pliers, labels , few HRU's and other items useful when EPIRBs and SARTs needs to be programmed, tested or battery exchanged
406 MHz EPIRB tester/receiver	Measure: <ul style="list-style-type: none"> Frequency Power 	99790	<ul style="list-style-type: none"> Jotron Tron Unidec (406 MHz only) 	406 MHz tester
			<ul style="list-style-type: none"> WST Beacon Testers Danphone Futronic GMDSS-AIS-SART Test box others 	May be combined 121.5/406 MHz tester
121.5 MHz receiver	Listen to audible reception of sweep tone and morse ("V") from 121.5 Transmitter. Also to be used as Alarm receiver to prevent DISTRESS alarms from EUT			VHF/AM Handheld radio
				May be combined 121.5/406 MHz tester IMO SOLAS only require listening to modulation, so a simple AM receiver may be used for this purpose.
Radio frequency screened room or box	Prevent DISTRESS signals to be transmitted to satellites from EUT	100729	<ul style="list-style-type: none"> Sartech FC2 Alternatives: 	<ul style="list-style-type: none"> <i>Below are some alternative boxes:</i> <ul style="list-style-type: none"> https://jretest.com/product/jre-1812/ and https://jretest.com/product/jre-1812ws/ http://www.ramseyelectronics.com/product.php?pid=10 (Other models available too from same brand) https://www.wst.ca/screenbox.html
GPS repeater to Radio shielded box	Repeats the GPS signal to be present inside box	101551	<ul style="list-style-type: none"> Sartech GPS Fixture (SX537) 	

Equipment	Purpose	Jotron Part no	Models	Comment
Facilities for water proof testing	Test waterproofness after change of battery		<ul style="list-style-type: none"> Beer brewer, different size/models depending in EPIRB types to be tested <div style="display: flex; justify-content: space-around; align-items: center;">  </div> <p style="text-align: center;"> Link (Amazon, USA) Link(Denmark) </p>	<p>Recommend using hot water as described in MSC/Circ.1039 with water temperature 20-30 degrees above ambient temperature</p> <p>Inner Dimension Needed:</p> <ul style="list-style-type: none"> Tron 60S/GPS: 136(w) x 350(h) mm: Tron 40S &Tron 40VDR: 260(w) x 475(h) mm
Bracket for Water testing	Tron 40VDR Water test bracket	81037		<p>Contains a magnet which inhibit water activation</p> <p>Prevent DISTRESS activation when EPIRB is lowered into water</p>

Equipment	Purpose	Jotron Part no	Models	Comment
	Tron 60S Manual bracket	86559		
	Tron 40s water bracket	102312	Similar to Tron 40VDR bracket 81037, but with magnet in correct position on compliance with Tron 40S	

<p>Bracket for test in Screened box</p>	<p>Bracket to prevent DISTRESS signals to be sent when screened box are opened, and test the Water contacts</p>	<p>81038</p>	 <p>SBM Bracket, Shielded box, Tron 40VDR</p>	<p>Bracket to be connected with timer or switch which will make contact between “water contacts” and activate EPIRB In RF shielded chamber.</p>
		<p>101923</p>	 <p>SBM Bracket, Shielded box, Tron 60S/GPS</p>	
		<p>101989</p>	 <p>SBM bracket, Shielded box, Tron 40s</p>	
<p>For Japanese flagged vessels, special requirement</p>	<p>Special calibrated fixture to be used for measuring 121.5 MHz and 406 MHz RF power to be compliant with Japanese regulations (Annual Test)</p>	<p>81041</p>		

<p>For Japanese flagged vessels, special requirement. Spectrum/Signal Analyzer</p>	<p>To be used with above bracket for measurement according to Japanese regulations</p>			
<p>Cables and Attenuator</p>	<p>40 dB Attenuator is needed if Jotron Tron UNIDEC is used as EPIRB tester and cables (RG58) will be used to connect Screened box with test equipment</p>			<p>Sartech FC2 have BNC connector. Tron UNIDEC have the same w/adaptor to SMB. Attenuator may have different connectors</p>
<p>Various tools</p>	<p>Assembly/Disassembly</p>	<p>97608 97605 97606</p>	<p>Plier for equator belt, Tron 40S Marking plier for battery label Sealing/side-cutter plier</p>  <p>Alligator/Water pump plier (Tron 60S/GPS & Tron 40VDR)</p> <p>89974 Cable cutter (For Bumper fastening VDR Storage (FRM)), Jotron Part no 89974 etc</p>	<p>If TronSTAT suitcase is purchased, all these tools are present there</p>
<p>Anti static equipment</p>	<p>Correct handling of ESD sensitive device using:</p> <ul style="list-style-type: none"> • Mat • Grounding cable(s) • Wrist band 		<p>Lindy's or similar</p> 	
<p>Record of maintenance</p>	<p>Authorities may require access to these records of performed SBM. Jotron will also ask for these records when renewal of certificate is done</p>			

Computer with Windows and Jotron SW for Programming/ Testing. Also access to new eLearning training courses				
eLearning training courses		200011	eLearning EPIRB, Programming, all except Tron 40VDR	Jotron EPIRBs, essential training, Basic knowledge, COSPAS/SARSAT, Regulations, Programming, Testing, Installation, Maintenance & Disposal
		200012	eLearning EPIRB, Programming, Tron 40VDR	
		200013	eLearning EPIRB, programming, all models	
		200014	eLearning EPIRB, SBM, Tron 60S + Tron 40S mkII	Jotron EPIRBs, Advanced training, IMO SBM requirements, Battery change, Testing according to IMO MSC/Circ. 1039 and Jotrons requirements.
		200015	eLearning EPIRB, SBM, Tron 40VDR	
		200016	eLearning EPIRB, SBM, all models	