Completed		Equipment List for installed with Backstay System
OK		The AT140 is as close to the antenna as possible.
OK/NA		GTO-15 cable is used from tuner to antenna.
OK/NA		The GTO-15 cable is fed through the hull using a water tight feed through/deck fitting/Clam Clamp.
OK/NA		The GTO-15 cable to the backstay is isolated using standoffs.
OK/NA		The GTO-15 is connected using a good quality connection to the backstay and protected from the environment with vulcanizing tape.
OK/NA		The GTO-15 cable to the backstay is the shortest route possible with no additional wire coiled up between the tuner and the antenna.
OK/NA		The IC M802 power cable (OPC1107A) is connected directly to the battery via a 30 amp MDL (slow blow) fuse within 7 inches. .
OK/NA		If the OPC1107A is not long enough to reach the battery, (#6) wire has been ran from the battery to the transceiver with a 40 amp fuse at the battery and the ICOM 30 amp fuse at the transceiver.
OK/NA		Battery Connections are crimped and soldered
OK/NA		The coaxial connectors (PL259) used on the cable between the transceiver and the tuner are factory made and tested.
OK		Or: Verify the PL259 connectors have been soldered at the center and the outer case if cable made locally
OK/NA		If coaxal cable has been constructed, verify the ohm meter readings on the cable have been recorded if coaxial cable was constructed locally and are within specified values logged in step eight.
OK/NA		The coaxial cable connection at the tuner have been wrapped with shrink tubing or vulcanizing tape.
OK/NA		Ferrite cores have been installed and the cable is looped through twice at both ends of the antenna tuner control cable.
OK/NA		An RF Isolator or preferably (5) ferrite cores have been installed at the RF output of the transceiver.
OK		(5) Snap on Ferrite Cores are installed at the tuner end of the RG8U/RG213 coax with tie wraps installed over them
OK/NA		The control head and Speaker cables have been tie wrapped to the side of the transceiver case.

OK/NA		The control head and Speaker cables have snap on ferrite cores at the transceiver end.
OK/NA		The DERA (DSC antenna) is installed and RG58 cable is ran to the back of the transceiver unit. It is connected to the number 2 antenna connection. (closest to the center of the transceiver)
OK/NA		The two PL259 connectors for the DERA uses RG58 adapters for the smaller cable and are soldered both at the center and the shield.
OK/NA		Verify the ohm meter readings on the cable have been recorded and are within specified values (Step 8 - Installing the Icom IC-M802)
OK		Verify every cable has some sort of ferrite cores installed on both ends: to/from the transceiver, modem and computer.
		Power Testing Results as recorded in Step 15 of Installation
OK		The Power out of the radio at maximum power is at least 150 watts
OK		The SWR of the radio is less than 1.5 for all bands

In		Equipment List
		Icom IC M802 marine SSB transceiver and tuner
OK		Transceiver Unit
OK		Control Head Unit
OK		Microphone (HM-135 or equivalent)
OK		External Speaker (SP-24 or equivalent)
OK		Mounting Bracket kit for Transceiver (bracket and mounting bolts)
OK		Mounting Bracket kit for Control Head (MB-81)
OK		Mounting Bracket kit for Speaker (MB-82)
OK		DC Power Cable (OPC 1107A)
OK		Microphone hanger kit
OK		Cable Tie Set
OK		Spare 30A and 5A FGB Fuses
OK		Associated connector set (8-pin Din)
OK		AT140 Control Cable OPC-1147
OK		AT-140 Antenna Tuner
OK		Remote Control Cable (OPC-1106)
OK		Tuner Connector kit
OK		(2) Snap on Ferrite cores for installation on tuner and transceivr end of the OPC1101 cable with the center hole of 0.41”
OK		Cable for GPS data with factory installed BNC connector(s) length as required to get from transceiver to NMEA signal.
OK		(1) 0.25" Ferrite Core for GPS input BNC cable
OK/NA		Factory built and tested coaxial cable long enough for tuner to transceiver
OK/NA		Alternately - RG213 or RG8U Coaxial Cable for Tuner and Transceiver
OK/NA		Alternately (2) PL259 Solder type connectors
OK/NA		Copper RF grounding foil, heavy-duty .010 thick. Max 4-inch Wide for connections
OK/NA		100 sqft of Copper Screen
OK/NA		Dynaplate to be installed during haul out of boat
OK/NA		Other Counterpoise grounding System
OK/NA		KISS-SSB™ Grounding System
OK/NA		RF Isolator If Used - MFJ-805 (Radio Works)or MFJ-915 from (MFJ Enterprise)
OK/NA		6-8" Factory built and tested coaxial cable to connect the RF Isolator to the transceiver
OK/NA		Alternatly 6 to 8 inch piece of RG8U or RG213 for RF Isolator transciever connection cable
OK/NA		Alternatly (2) PL259 Solder type connectors for RF Isolator transciever connection cable
OK/NA		OR Double-male coaxial connector
OK/NA		OR if no RF Isolator 5 Ferrite cores for RG8U/RG213 with the center hole of 0.41”
OK		(2) Snap on Ferrite cores for installation on the tuner end of the RG8U/RG213 Coax with the center hole of 0.41”
OK		(2) 1/2 Inch snap on Ferrite Cores for installation on both ends of control cable
OK		**DERA**
OK/NA		Gam Electronics DSC Antenna and mount with 30 ft. Cable & PL-259 Connector

OK/NA		Metz DSC Antenna and mount with 30 ft. Cable & PL-259 Connector
OK		One ferrite core for up to 17/64" size to be installed on the Metz antenna at the transceiver.
OK/NA		**HF 23 foot fiberglass antenna and mount**
OK/NA		GTO-15 antenna lead-in wire long enough to go from AT-140 Tuner to antenna
		OR Back Stay Antenna
OK/NA		Modified Stay with 2 insulators installed
OK/NA		3/4 " PVC to construct 3" standoffs for GTO-15 wire on backstay
OK/NA		The GTO-15 to Backstay connector.
OK/NA		GTO-15 antenna lead-in wire long enough to go from AT-140 Tuner to antenna
OK/NA		**OR GAM/McKim Split Lead Single Sideband Antenna (GTO cable not required)**
OK		Deck fitting/Clam Clamp for through hole for GTO-15 cable
OK/NA		Optional DSP Speaker/Device
OK		Misc. Vulcanizing Tape, electric grease and terminal grease lubricant, Solder, soldering Iron, SWR / Power meter, Volt Ohm meter, cable ties, tools

In		**Add Audio Weather Fax**
OK		Mono audio cable with 3.5mm connectors
OK		Weather Fax software that supports Audio input.

In		**Add Email and Weather FAX**
OK		Pactor Modem (Pactor 4, PTC IIusb or PTC IIpro)
OK/NA		USB cable for PTC IIusb
OK/NA		RS232 cable with serial to USB adapter for PTC IIpro
OK/NA		Control of Frequency by Modem - SCS 8083 six (6) foot Frequency control cable
OK/NA		Control of Frequency by Modem - SCS 8084 12 foot Frequency control cable
OK/NA		Control of Frequency by Computer - RS232 cable with serial to USB adapter
OK/NA		SCS 9090 six (6) foot Interconnecting cable
OK/NA		SCS 9091 six (12) foot Interconnecting cable
OK		(12) ferrite snap on cores for the selected three cables above (cores for up to 17/64" size) Also called Ferrite Data line filters
OK		Computer capable of running Windows software
OK/NA		Download Airmail for free from Sailmail.com for Sailmail or Windlink email service
OK/NA		Other HF-SSB email service software
OK/NA		Weather FAX software (May be included with Airmail)