# **Offshore Tool Box**

### Prepared by:

Michael Keyworth

**Brewer Cove Haven Marina** 

Eric Goetz

**Goetz Custom Boats** 

Phil Garland

Hall Spars and Rigging

#### Introduction

This list of tools and spares is intended to be a minimum guide to tools and spares that might be helpful in affecting emergency repairs when outside assistance is not available.

#### Tools

Socket Set, 3/8" Drive SAE, min. 3/8 thru 13/16"

Socket Set, 3/8" drive, Metric, min. 10 thru 17mm

Flex T- Handle, 3/8" drive

Ratchet Wrench, 3/8" drive

Extension Bars, 3/8" drive, 3", 6", 10"

Socket Set, 1/2" Drive, SAE 3/8"Thru 1-1/4"

Socket Set, 1/2" Drive, Metric, 9mm Thru 18mm

Ratchet Wrench, 1/2" Drive

Extension Bars, 1/2" Drive, 3" 6", 10"

Combination Wrenches, SAE, 1/4" thru 7/8"

Combination Wrenches, Metric, 7mm thru 18mm

Philips Screwdrivers, Size #0, #1, #2, #3 & Stubby

Slotted Screwdrivers, Size #0, #1, #2, #3 &Stubby

Hex Head "Allen" Wrenches SAE & Metric

Dead Blow or Soft faced Hammer

20-24 0z Hammer with hole in handle

Adjustable Wrenches: 6, 8, & 12 inches

Strap Wrenches

Snap-on, Cornwell, Craftsman, etc.

any QUALITY brand w/hardened tips

any QUALITY brand w/hardened tips

any QUALITY brand

Nut Drivers, 3/16" thru 1/2 " any QUALITY brand Needle Nose Pliers any QUALITY brand Offset screwdriver any QUALITY brand "Vise-Grip" only Models: 12LC, 7CR, Locking Pliers: Lg. Jaw, Curved Jaw, Needle Nose **&4LN** Sidecutting Pliers "Dikes" any QUALITY brand any, but "Channelock" is good "Slip Joint" Adjustable Pliers 4" capacity (bigger=better) any QUALITY brand 25 foot Tape measure any QUALITY brand High Tension Hacksaw, 12" 12 Hacksaw Blades Bimetal and carbon any QUALITY brand any QUALITY brand Drill bits in a case 1/16 to ½ inch in 64ths "Spade" bits for wood 5/8 to 1 1/4" any QUALITY brand Holesaw Set (up to 4 inch) Heavy Duty with substantial mandrill Tap and Die set standard up to 1/2" any QUALITY brand any heavy duty brand 1/2" Chuck Cordless drill (Highest Voltage) Cordless Sawzall (Highest Voltage) Heavy Duty Assorted Sawzall blades inc. Carbide Blades any QUALITY brand Hydraulic Cutter Huskie Tools models-208 Fluke model 179 Digital Voltmeter Wire Stripper 22guage to 10gauge wire Anchor# 702030 (West Marine) Anchor# 701030 or Dearborn #KT2-**Quality Ratchet Crimping Tool** 2026 **Battery Cable Cutters or Shears** Anchor #70205 or equal 12' Jumper Cables any QUALITY brand 1/2 Round Cabinet Maker's Rasp Get Coarse cutting( will be used on fiberglass or wood. 8, 10, 12inch Half round and flat files (Bastard) Nicholson or quality (get comfortable handle) Assorted cold chisels, pin punches, drifts, etc. any QUALITY brand

Set of tapered Punches-Small, Medium and Large

hrand

Wood Chisels (Couple of Sizes)

get plastic handles

Utility Knives and razor knives

any QUALITY brand

Assorted Pry bars

any QUALITY brand

Sharp AWL

any QUALITY brand

Head lamp- Quality LED w/ spare batteries

for working in tight quarters, frees up

2 Or 3 different sizes, any QUALITY

both hands

Gas powered torch

for heat shrinking

It is important to put holes or to tie safety lines on the large maul, tapered pins, Saws and any other tool that you might be using on deck in rough conditions. Any tool that you are using will be useless if it goes overboard. Make sure that the proper tether is made to it before you leave port.

Spares, supplies and useful bits.

Drywall screws 1", 1 1/2", 2", 2 1/2", 3", 4"

A quick fastener with many applications, Get Galvanized

Hard wood block or hard rubber-

To cushion hammer blow

Depending on size of boat Larger wrenches

Larger boats= larger tools.

10 feet of 36" wide Sticky back

Can be used to repair a variety of problems

4 rolls of quality Duct tape

Need we explain this?

30-80 foot lengths of electrical wire

14/2, 12/2, 10/2, 8/2

Assorted quality connectors (CNS)

Butt, various ring, spade, etc

5 tubes silicone sealant

any QUALITY brand

5 tubes Boatlife or 101

Cures underwater

10 rolls rigging tape

any QUALITY brand

Various sizes of Spectra or Vectran

50' lengths of 1/8", 1/4" 3/8"

**Assorted Hose Clamps** 

ABA or Norma

Hose Couplers, Sized to your boat

PVC is preferred

Assortment of hoses, Sized to your boat	Minimum Nylon reinforced	
4-5 min epoxy kits	Good for quick repairs	
Mask and Fins to fit 3+ Crewmembers	Necessary for prop/rudder clearing and underwater repairs.	
West Marine G Flex and cloth 1708 1808	Cures in wet conditions.	
1 Qt Acetone	Dries water for repairs.	

Boat Owners Mechanical & Electrical Manual	Nigel Calder	McGraw-Hill
How Boat Things Work: An Illustrated Guide	C. Wing	McGraw-Hill

#### Notes:

## Offshore Rigging Equipment

In addition to the normal offshore tool kit the following items should be included in a Rigging Ditty Bag for normal running and standing rigging maintenance:

Marlinspike
Rigging knife
Splicing Fids and Pusher
Sharpening stone
Seizing wire
Assorted Cotter pins
Rigging Tape
Whipping Twine
Sailmaker's Needles
Small Vice Grips
Small Dyneema/Spectra Lashing lines, 3-5mm
Small Felco Wire cutters

### For Going Aloft:

Bosun's chair with Safety Hook or Shackle Lirakis or Climbing Harness Canvas Bag for tools Safety line to tie off to rig

# **Emergency Spares and Tools for rigging repairs:**

Length of 1x19 Wire (length and diameter of longest stay or shroud)
Appropriate sized Norseman or Sta-Lok mechanical wire terminals
High Resistance D Shackles to fit tangs or chainplates for lashings
Cable Clamps
Hacksaw and blades (32 teeth/in high quality) for cutting rod
Hydraulic Wire Cutters like Huskie Model # S-16A or Felco Hand Cutter Tool
Long length of Dyneema line, 6mm or larger

Phil Garland Hall Spars and Rigging