

# Mechanical Check List

## CUBAR 2015

**Above Deck overview:** Review all items on the deck, pay attention to the following:

- Check deck stanchions and lifelines.
- Check dinghy, hold downs and brackets.
- Check life raft, make sure it is certified.\*
- Assemble a “Ditch Bag “ with emergency supplies if not included in life raft\*
- Check anchor windlass, inspect ground tackle and check operation of all components. Is anchor swivel or clevis secured with SS seizing wire? Inspect back up or stern anchor and ground tackle.
- Check wiper operation, wiper arms and blades.

**Below deck: Review all items that could leak or cause corrosion problems:**

- Inspect and check operation of all seacocks.
- Inspect all hoses and hose clamps. **Any over 10 yrs old are suspect.**
- Checkout bilge pump operation and alarm circuits.
- Check to make sure bilges are clean.
- Check for safety equipment, life preservers, fire extinguishers, etc.
- Check engine room automatic fire suppression system.
- Make sure everything below deck is well secured against movement before departure.

**Engines:**

- Check all fluid levels.
- Check raw water strainers.
- Check operation of engine alarm system.
- Check operation of generator alarm and shut down system.
- Check all belts and hoses.
- Inspect engine exhaust system carefully, repair any parts showing signs of wear or leaks.
- Check shift and throttle controls carefully – lube and tighten loose parts as needed.  
Replace any kinked, chafed or damaged cables. Secure lock nuts at cable clevis ends.

**Steering System:**

- Inspect steering ram mounts and clevis at tiller for loose bolts or nuts.
- Inspect for leaks and chafing at ram seals and all attached plumbing.
- Check fluid level, pressure, top off if necessary
- Verify autopilot operation

**Electronics:**

- Check operation of all electronics.
- Check wiring for chafe; make sure all plugs are properly seated.

**Electrical System Checklist:**

- Check battery terminals and posts for corrosion and clean and preserve them.

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\* For Extended Offshore cruising

- ❑ Make sure connections are tight. **Batteries should be covered** and secured so they cannot move.
- ❑ If batteries are the lead acid type, top up with distilled water and recharge.
- ❑ Check the age of the batteries, if close to three years consider replacing them or have them tested.
- ❑ Inspect wiring for wear and chafe; check to make sure wiring is secured.
- ❑ Inspect bonding system for loose or corroded connections.
- ❑ Check all running lights, interior lights, etc.
- ❑ Test operation of smoke/carbon monoxide alarm.

## Spare Parts List

### Electrical:

- ❑ Check to make sure you have spare fuses for all your electrical and electronics. A good kit is to have an assortment such as West Marine #491902. Make sure you have spares for the electronics; often these use specialty fuses that are difficult to find.
- ❑ You should have a crimp on connector kit and crimping tools. West Marine #5349063 connector kit and a crimping tool, several are available.
- ❑ If you have an inverter/charger check for spare main fuses these will be either T or ANL type 150 to 300 amp depending on the size of the inverter.
- ❑ Spare breakers for the main panel, 10, 20 and 30-amp size.
- ❑ Spare bulbs for all navigation lights. Spare bulbs for interior lights.

### Engine/Generator:

- ❑ Check with engine manufacturer and see if they have a cruising spares kit.
- ❑ Have a good basic tool set with metric and US standard tools and a quality multimeter (Fluke makes affordable quality meters). Make sure tools are properly secured and in a dry area.
- ❑ If you have a single engine you should consider carrying a spare starter, alternator and voltage regulator if it is not built into the alternator. \*
- ❑ Complete set of belts.
- ❑ Raw water pump impellers. **Consider carrying a spare seawater pump.**
- ❑ Set of hoses.
- ❑ Engine thermostat with gasket set.
- ❑ **Complete set of fuel, air and oil filters, minimum 4 changes.**
- ❑ Replacement zincs,
- ❑ Engine repair manual and parts catalog.

### Fluids:

- ❑ Engine oil.
- ❑ Generator oil.
- ❑ Coolant as specified by engine manufacturer.
- ❑ Diesel fuel treatment.
- ❑ Transmission lube oil.
- ❑ Steering fluid.
- ❑ Fluid for stabilizers if fitted.

**Zincs:** Zincs as used on rudders, stern plates, shafts, etc.

**Pumps:**

- ❑ Spare bilge pump.
- ❑ Spare or repair kit for fresh water pump and waste discharge pump.
- ❑ Repair kit for toilet.

**Miscellaneous:**

- ❑ Spare hose as used in various applications on the boat. Measure the longest needed and carry a length of each size, include an assortment of spare hose clamps.
- ❑ Spare baskets and gaskets for sea water strainers.
- ❑ Batteries and bulbs for flashlights.
- ❑ Suggest carrying a small battery charger for tender outboard
- ❑ Wiper blades.
- ❑ Spare filter elements for primary filter.
- ❑ Spare shaft gland packing material for prop and rudder shafts or spare for dripless systems.