02. Rally Preparations





This section will consider how to prepare the boat for the rally, including suggestions for equipment that may be bought specially for long-distance cruising. It also includes top tips for making the boat comfortable at sea.

Don't forget that Section 2, Safety, covers all of the mandatory and recommended safety equipment that the boat should carry. See pages 13-35.



Useful Boat Checklist

Questions Notes

Check and update your boat information on the Members Area.

See page 7

Add a boat description, photograph and links to your boat website

See page 7

Arrange for email capability at sea, via SSB and PACTOR modem

or satellite phone. See Communications Section

Update your at-sea email address and sat-phone number (if on-board) on your boat information in the Members Area. See page 7

Go through each area of the boat and think 'rolling'. Consider if you have adequate handholds and what will make life easier and safer when the boat is heeled or rolling?

- Gallev
- Heads/toilet
- Main living cabin/saloon
- Sleeping cabins

Will you need to protect against insects?

Do you need to consider the security of boat and equipment if you are leaving the boat for any period?

Is your shore power the correct voltage for the countries you will be visiting?

Do you need a transformer?

Is your shore power cable long enough and are you carrying a range of adaptors? More information on shore power on page 58

Have you considered options for power generation at sea?

- Alternator
- Generator
- Solar, wind or towed generators
- Other?

More information on pages 59-60

Have you got the right spares onboard? See page 63 for information

Do you have a comprehensive toolkit with tools for completing onboard repairs including mechanical, electrical, plumbing, hydraulic, rigging and hull repairs? See page 65 for suggested items. Are any power tools the correct voltage for the yacht's systems? Do you have the right connections to recharge battery power tools?

Will you be able to get the right cooking gas (propane/butane) while cruising? See page 68 and Local Information section for suppliers

Do you have a mechanism to heat water or food even if the boat has no electrical power?

Do you need a holding tank (black water tank)? See page 67 for information

Is your first aid kit adequate, and have you appointed a 'ship's medic'? See page 69 for information

Do you need to schedule work on the boat with your boatyard or other specialist company? Don't leave this too late!

02. Rally Preparations



Video: Boat Preparations **Equipment Overview**

the code

Think About...

Early in the planning phase of the rally, look critically at your boat and decide whether you need to make any modifications, or replace any of the gear. Don't forget that you will be cruising after the rally too! These are some suggestions:

Rigging:

If your mast and rigging is more than 10 years old, your insurance company may request replacement. Whatever age the rig, get it checked by a rigger (see page 83)

Sails:

Are they up to a long passage, or are they well-worn and need replacement?

Do you have strongwind sails?

Do you have downwind sails?

Do you have a robust reefing system?

(See page 91)

Steering system:

Check the rudder bearings and steering cables/chains for wear.

Test the emergency steering

Propeller:

Check the stern gland Consider fitting a rope cutter

Back-ups:

Doubling-up systems like bilge pumps and fuel filters provides a back-up in case of failure.

What would happen if you had no electricity - could you still reef, navigate, cook, pump the

case' scenarios.

Power:

Do a power audit (see page 59) - do you have enough battery capacity? How will you generate power on passage? Any shore power

issues? (see page 58)

Tools and spares:

Do you have comprehensive spare parts for all the systems onboard?

Do you have manuals/ handbooks onboard? Do you have a good tool box, with lots of choices?

(See page 63-65)

Communications:

If you are fitting SSB or sat phone, get it installed professionally well before the rally to ensure that it is working properly.

Safety:

5054

Do you need extra safety equipment (see page 14-20) - where will it be stowed? Create an equipment stowing plan

Water:

Do you have enough tank capacity (see page 74)

Consider separating water tanks to avoid water loss or contamination

Do you want to fit a watermaker?

Consider manual pumps in the galley and heads to save water

Consider a salt water pump in the galley

(See page 67)

Provisions:

Create a provision stowage plan.

Anchor:

Do you have the right anchor, chain/rope and windlass for long term cruising?

Seacocks:

Check the throughhull fittings for corrosion.

Fit each seacock with a bung/plug.

bilge or have lights?

Consider your options in 'worst-

02. Rally Preparations



...What Goes Wrong

Even after a comfortable season of cruising, an offshore passage can exert new demands on the boat, stressing parts not tested during short coastal cruises and day sailing, such as spinnakers and spars. It is a good idea to review some of the key equipment failures that may occur on extended passages prior to departure.

By considering potential problems now, in relation to your own boat, you will be able to judge if you are well prepared to avoid the most common problems at sea. Make sure you have the appropriate spare parts and a comprehensive toolkit (see page 63-65).

On many rallies, problems experienced by boats include:

Rigging

On long downwind passages, damage to the spinnaker pole and its track may occur, when the forces of day after day poling out a foresail or spinnaker take their toll. Likewise, booms may break due to badly positioned preventers, or if the boom dips in the water when rolling down wind.

Total loss of the mast is very rare, but chainplate and rigging terminal failure is more common, and unless this is managed promptly the mast may come down.

Damage to running rigging like halyards is very common - all due to chafe.

See pages 83-88 for tips on checking and repairing a rig at sea and watch the Advanced Rigging video.

Sails

If your sails are several seasons old, get a sailmaker to check the stitching and cloth. Sail cloth is degraded by UV light as well as by general use, and weakened cloth can easily tear.

If you are planning trade wind sailing, then be prepared for squalls, which can bring a big increase in wind speed and direction, often leading to ripped sails.

Steering

Loss of steering through damage to the steering cables or chains, or by failure of the autopilot are relatively common. This can be caused by general wear and tear on old parts, under specified equipment or poor boat handling.

Less common is the loss of the rudder due to

weakened rudder bearings or collision, but it does happen. Check your steering system carefully, and consider what would happen if the rudder was broken or dropped out - apart from anything else, this would leave a large hole in the bottom of the boat!

Your emergency steering system will be checked during the safety equipment inspection.

Electricity

Inability to charge the batteries, leading to loss of power is relatively common. This is most often caused by a failure in the charging system. While a broken main engine is hard to fix at sea, taking preventative measures such as checking fuel filters and impellers, and having a spare alternator are common sense. Having an alternative generation system will allow the batteries to charge, even if the engine won't run (see page 60).

If you have a boat with original wiring, it would be worth having an electrician check the cabling, as damaged wiring can be a common cause of fire.

At first thought, a lack of electricity seems a minor inconvenience, but the reality means no GPS, no communications, no navigation or domestic lights, no powered winches, no autopilot, and on some boats, no way of getting water out of the tanks. On a 500NM+ passage these can have a serious impact on the crew and outcome of the voyage.

Consider alternatives to heat water or food even if the boat has no electrical power. If you have an electrical gas solenoid, make sure you can bypass it in the event of electrical problems.

Take a critical look

Take a critical look at your boat, or ask a surveyor or a boating friend to take a look with you. Look at every part of the boat and every system and think "what is the worst that could happen?" and "how would I fix that problem?"

Don't forget that passage-making is equivalent to several years worth of 'normal' sailing: multiply the passage time by 24 (hours), then divide by 6 (hours) to work out how many 'normal' day sailing days the passage equates to - a 10 day passage equates to 40 days of 'normal' sailing at 6 hours per day.

This is probably equivalent to 2 or 3 years of weekend cruising for most boats and crews.

Now, ask yourself, is your boat and gear 'up to it'?

02. Rally Preparations



Useful Additions

Even if you have been cruising for a long time or even living aboard, you will need to go over your boat carefully to ensure that it is ready to go offshore. Preparation is key, and there is no substitute for testing everything.

Down Below

Cupboard doors: install catches/locks so that doors stay shut when the boat is heeling over.

Galley: make a chopping board that fits snugly into the sink.

Cooking gas/Propane: if you are cruising outside your normal area for a period, check availability of your type of cooking gas – it may not be possible to buy butane or propane in some places. Consider fitting a dual-fuel system. Carry spring balance/scale for checking the weight of refilled bottles. Note that propane bottles older than 10 years old or in poor condition will not normally be refilled.

Fruit Net: Instal overhead nets to help keep hard fruits ventilated and prolong their ripeness.

Handy items: put a knife, flashlight and white collision flares just inside the main companionway hatch. Use spring clips or a net bag.

Handholds: do you need to fit additional ones to make moving around down below easier and safer while on passage?

Heavy objects: secure batteries, floorboards, books etc properly - think rolling.

Holding tanks: if you are going to fit a black water or holding tank, fit one with a large capacity to avoid having to empty too often.

Insects: place bug/cockroach traps in bottom of lockers and bilges, and attach bug screens or mosquito nets to opening hatches.

Laptops: fit Velcro to laptop and the saloon table/ nav area to secure when at sea.

Lee cloths: are they deep and strong enough for your largest crew member?

Non-slip/skid matting: cut to fit the saloon table and galley work top surfaces. Handy to have nonskid mats which can be used around the boat.

Night vision: put red lights in saloon, galley and toilet areas

Oven: make safe by putting a retainer inside to

keep dishes in place when the oven is opened and heeling over. Put a crash bar across the stove to avoid nasty accidents. Dig out those pot holders and invest in a pressure cooker (no spillages of hot food/liquid).

Radar: even in areas where fog is unusual, radar can be useful for picking up trade wind squalls on passage.

Storage: store pans with paper towel in-between to prevent rattling and damage to non-stick. Invest in a roll of non-slip/skid matting.

Upholstery: you may consider protecting your upholstery with removable, easy clean covers while on passage.

Ventilation: is there a good flow of air through the boat? Try a range of windscoops and consider fitting small 12v fans by bunks and in the galley.

Water: install a salt water pump in the galley and manually operated fresh water pumps in the heads/toilet and galley to save water. Consider twin water tanks that can be isolated to avoid contamination.



On Deck

Anchor chain: extra-long chain 100m or 300'+ gives you more options when anchoring, and more security in rough weather.

Cart/trolley: a small collapsible cart is a must for gas bottles, diesel cans and provisions in port.

Deck shower: best way to shower when in hot temperatures and good for after swimming. Cheaper option is a solar shower, easy to store.

Dinghy: you may want to tow your dinghy on short passages. Make a strong bridle with permanent lines to your aft cleats so you don't lose it! If stowing your dinghy on davits during passages, raise the dinghy as high as possible and secure carefully to avoid chafing.

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Drinks: put bottle holders (try bicycle water bottle clips) around cockpit for convenience.

Strong gloves: protect your hands when handling anchor warps, chains (and flares).

Heat/Sun: invest in a good bimini and sun awning that covers the cockpit and cabin roof. Keep a garden plant spray bottle with water in the fridge – lovely for spraying on your face to cool off.

Shore power: bring a selection of shore power electrical adaptors with you (e.g. splitters, doublers, 32 & 16 amp plugs). See later sections on Power Management and Shore Power.

Think 'easy': set your boat up so it can be sailed by the weakest crew member.

Water: an easily stowed flat packed reel of hose, dedicated to fresh water, with a selection of tap/faucet fittings will prove useful.



Security

Ashore: take sensible precautions ashore and beware pickpockets and petty thieves. Leave high value items on the boat, or securely on your person. Some people use money belts.

Dinghy: buy a heavy-duty combination lock and wire to padlock ashore and to boat. If you don't have davits, rig a three or four point lifting strap to hoist the dinghy up at night.

Main hatch: Install a lock that can be operated from below deck to secure at night when onboard.

Money: if keeping money on board, split it up and hide it in different places.

Motion detectors: consider a small batteryoperated model with a noisy alarm.

Outboard: some suggest painting this funky bright colours to deter thieves. Use a strong outboard lock.

Paperwork

Ship's papers: keep a photocopy of your passport, boat registration, boat and personal insurance papers and your credit cards in your grab bag (abandon ship bag).

Equipment list: have a list of equipment on board with serial numbers.

Boat stamp: getting an ink stamp designed and made for the boat is fun, and can be useful when completing some official forms.

Visiting cards: like business cards, these are a great way of reminding people of your name, your boat name, at-sea email address, website and call sign.

Miscellaneous Luxury Items

Breadmaker: nothing beats fresh bread!

BBQ/grill: keeps the smells out of the galley.

Cockpit beanbags: greatly increase comfort when on passage and protect the knees!

Communication: walkie-talkies are cheaper than handheld VHFs, smaller and easier to carry and use. Great if one crew member goes ashore for shopping and needs to call back to the boat.

Fishing rod and lures: always a fun pastime and saves visiting the local fish market.

Hard bottom dinghy: for extended cruising, particularly in areas requiring anchoring, an inflatable dinghy with 4hp motor just won't cope. Consider also the largest outboard you can handle and a good sized dinghy anchor.

Laundry: highly recommended is a hand wringer/ mini washer for wet clothes.

Snorkelling gear: great for fun but also for checking the anchor, freeing nets off rudder, cleaning the waterline etc.

Visitors book: excellent memento of your trip.



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Suggested Books

The pilot books and charts for the rally ports are included in the Local Information section. These books will help with planning for a cruise, and will provide information while onboard.

Don't forget that you can save 10% by ordering your pilot books and charts through our online shop at www.worldcruising.com/onlineshop

Pilot Books

Ocean Passages and Landfalls

ISBN 9781786793027 by Rod Heikell and Andy O'Grady. Cruising routes of the world with passage planning information and information on key harbours.

Medical and Provisioning

Ship Captain's Medical Guide

ISBN 9780115534614 by MCA. The medical 'bible' for all sailors, this is the standard book carried on all merchant ships.

International Medical Guide for Ships: Including the Ship's Medicine Chest

ISBN 9789241547208 by World Health Organization. 3rd Edition. Advice for designated first-aid providers on how to diagnose, treat and prevent the health problems of seafarers on board ship.



Doctor On Board

ISBN 9781408112724 by Dr. Jurgen Hauert. Hands-on fully illustrated guide to handling first aid on board. Includes a useful list of suggestions for the first aid kit.

First Aid at Sea ISBN 9781472953414 by Douglas Justins and Colin Berry. Written by doctors with extensive sailing experience is easy to use. Kindle edition also available.

The Boat Galley Cookbook

ISBN 9780071782364 by Carolyn Shearlock and Jan Irons. Practical 'how to' advice on every aspect of food onboard, including recipes. More information at theboatgalley.com

Care and Feeding of the Sailing

Crew ISBN 9781929214341 by Lin and Larry Pardey. Arranged as a provisioning and cooking programme for a 50-day voyage under different weather conditions.

The Voyager's Handbook

ISBN 9780713684773 by Beth Leonard. An inspirational and comprehensive handbook for all aspects of the cruiser's life.

Radio and Navigation

Celestial Navigation for Yachtsmen

ISBN 9781472942876 by Mary Blewitt. This classic guide to celestial navigation includes worked examples related to current tables. Also available as an ebook: ISBN 9781472906762

Reed's Astro Navigation Tables

ISBN 9781472988621 (2022) Annual publication of astro-navigation tables for yachtsmen.

List of Radio Signals

UKHO NP281 [1] - Europe, Africa & Asia
UKHO NP281 [2] - Oceania, Americas & Far East

HF Radio Email for "Idi-Yachts"

ISBN 9780971564015 by Marti Brown.

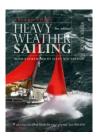
Weather and Sailing

G133 RYA Weather Handbook

ISBN 9781910017142 by Chris Tibbs. Meteorology for mariners in a clear and easy to follow guide. Also available as an ebook.

Heavy Weather Sailing

ISBN 9781472992604 by Peter Bruce. Includes techniques and expert advice from the great sailors of our time. Includes sections on catamarans. Also available as an ebook: ISBN 9781472928191



Handling Storms at Sea

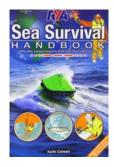
ISBN 9781408113486 by Hal Roth. A five point gale strategy set out in a clear authoritative analysis.

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G43 RYA Sea Survival Handbook

ISBN 9781906435967 by Keith Colwell. Complete guide to survival at sea from the RYA, including using liferafts. Also available as an ebook.



Boat Safety Handbook - Ebook

ISBN 9781906435530 by Keith Colwell. Advice on all aspects of boat safety and safe boating from the RYA.

Maintenance

The Boat Data Book ISBN 9781408105894 by Ian Nicholson. Contains invaluable information for anyone living aboard and maintaining their yacht. Available as an ebook: ISBN 9781472908957

The Boatowner's Mechanical and Electrical Manual

ISBN 9780713672268 by Nigel Calder. Includes minor and major repairs of electrical systems, engines, electronics, steering systems, pumps, cookers, spars and rigging. Ebook also available.

Marine Electrical & Electronics Bible

ISBN 9781574092424 by John Payne. Provides owners with all the information they need to select, install, maintain and troubleshoot any electrical or electronic system on a boat.



Skipper's Onboard Diesel Guide ISBN

9780713676181 by Hans Donat. In handy splashproof format it is a reference to all types and sizes of marine diesel engine.

The RYA Book of Outboard Motors

ISBN 9780713675757 by Tim Bartlett. Covers both two and four stroke outboard engines. Includes a fault-finding section.

Safer Offshore: Crisis Management and Emergency Repairs at Sea

ISBN 9780939837908 by Ed Mapes. How to deal with almost every possible emergency at sea.

The Splicing Handbook

ISBN 9780071736046 by Barbara Merry. Techniques for splicing all types of ropes.

Fun Reading

Happy Hooking - The Art of Anchoring

ISBN 9780981517100 by Capt. Alex Blackwell & Capt. Daria Blackwell. www.whiteseahorse.ie/publishing/HappyHooking.html

Whales, Dolphins and Seals

ISBN 9781472969668 by Hadoram Shirihai. Identify wildlife during the passage and further afield.

Sea Fishing

ISBN 9781408187951 by Jim Whippy. Expert tips and techniques for yachtsmen and sea anglers. Available as an ebook: ISBN 9781408187968

Secrets of Sailboat Fishing

(eBook). Highly recommended. sailboat-cruising. com/secrets-of-sailboat-fishing.html

Barefoot Navigator

ISBN 9781472944771 by Jack Lagan. An unusual and fascinating exploration of the skills of navigation. Available as an ebook: ISBN 9781472903266

The Practical Skywatcher's Handbook

ISBN 9781408157466 by David Levy & John O'Byrne. Advice on how to read the night sky

Lesson Plans Ahoy!

ISBN 9780982771440 by Nadine Slavinski. Lead your children through relevant, fun, hands-on learning experiences that link to national and state curricula (US). Available from Amazon.com

Yachtsman's Ten Language Dictionary

ISBN 9780713684407 by Barbara Webb. This multilingual dictionary, specifically geared to yachtsmen, has now been expanded and now includes English, French, German, Dutch, Danish, Italian, Spanish, Portuguese, Turkish, Greek

Free Online Resources

NOAA electronic charts are available for free download in vector and raster formats from nauticalcharts.noaa.gov/charts/noaa-enc.html

The US National Geospatial-Intelligence
Agency has a wide range of free download
information. See http://msi.nga.mil/NGAPortal/
MSI.portal and click on 'Publications'

02. Rally Preparations



Electric Shore Power

First of all, always remember that high voltage can kill! If you have the slightest doubts about what you are doing, call in an experienced marine electrical engineer.

Shore power supplies around the world will vary in voltage and reliability. Being able to "plug-in" when in a marina, or even stern to a dock, has become increasingly important for cruisers today such are the demands of domestic appliances fitted onboard modern cruising yachts. A reliable generator and good alternative energy sources will help avoid the constant need to "be connected", which is also essential for remote cruising or self-sufficiency.

Where shore power is available it will come in different forms and through varying connectors. Having the ability to step up or down the voltage to that required onboard is useful.

Battery Charger

As a minimum the battery charger fitted should be one that can accept multiple voltages (110/120 or 220/240) and 50Hz or 60Hz; this will at least allow the batteries to be charged, and for DC (12/24v) appliances to be run while connected to shore power.

Inverter-Transformer

Fitting an inverter-transformer to either step up or down the shore power to your normal voltage will enable "ring-main" appliances to be run onboard; be aware that inverters do not change the cycles (Hz) and this will remain as supplied from the shore power (50 or 60 Hz). Not all appliances will run with the wrong cycles, and great care should be taken (microwaves are one such appliance).

Connectors

Around the world there seem to be as many different shore power electrical connectors as countries visited! The best way to cope with this is to have a short "necklace" of about 1m in length that has a female socket for your standard shore power cable at one end, and bare wires at the other, thus enabling different plugs to be wired as required. Some marinas will have plugs available for rent, but in others they will have to be bought. It is a good idea to have as full a selection of plugs available as possible, with some conversion necklaces already made up.

Shore Power FAQs

What are the different types of voltage used around the world?

European style 220/240AC is NOT THE SAME as US 220/240AC.

European voltage is 220-240v 50Hz single phase or 380-400v 50Hz 3 phase.

US voltage is 110v 60Hz, or 220-240v 60Hz twin phase (2 x 110-120v).

Never attempt to plug a US wired boat directly into European style dock outlets, or European wired boats into US style outlets. Always check the supply first.

Do I need a transformer?

Whilst not essential it is a good idea to have one to enable standard voltage appliances to be run onboard while connected to shore power.

Transformers can change 220v AC to 110v AC, or vice versa, but it must be an ISOLATION TRANSFORMER. Marinas sometimes rent transformers.

Transformers cannot change 50Hz to 60Hz. They will deliver Hz as supplied from the shore power. Some equipment is sensitive to a change in the frequency (Hz), so it is always a good idea to check the handbook of AC equipment to see if it can run on both 50 and 60 Hz.

Any other problems I should know about?

Some US boats can have problems with electrolysis due to the common practice in the States of bonding the neutral and ground wires together. If you are unsure about this and don't want your prop to fall off, get the system checked.

What should I carry to help me to connect to shore power when available?

- The primary shore power lead should be at least as long as the boat plus 5m (15'). This will enable you to connect when bow or stern to the dock.
- An extension cable of 15m (50') or more for those difficult to reach power supplies.
- Short connection necklace, with female socket on one end, bare cable for alternative plugs on the other end.
- For European yachts: European 16A to 32A (or 32A to 16A), and 16A or 32A to 63A.
- For US yachts: standard female socket to: European 32A, European 63A, USA sockets.

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Power Management on Long Passages

Prepared with assistance from www.tomlogisch.com, experts in energy management

Managing your electrical power when sailing offshore is important, never more so than on modern yachts equipped with all the luxuries which make life more comfortable at sea – autopilots, refrigeration, watermakers and electronic navigation.

Generating power for an extended period during an ocean crossing, or cruising away from marinas will require a different attitude than coastal cruising where a fresh supply of diesel fuel is close-by. Managing your battery power, and generating the electricity needed to recharge them will be more of a challenge than simply turning on the engine.

Therefore your power management on board has to be approached systematically. You should start by calculating the power consumption of your yacht's systems. In this example, we have looked at a typical cruising yacht, at 13.4m (44') LOA, with a crew of four.

Power Audit: energy consumed in 24 hours

Consider all electrical items, and calculate their daily usage to find the daily power requirement.

A = Amps Ah = Ampere Hours W = Watts

Navigation Equipment

Computer	3-5A
Chart plotter	0.5-3A
Instruments	0.5-1.5A
GPS	1A
Radar	3-5A
Autopilot	0.5-10A

To reduce power consumption, use night or power-save mode on chart plotters and dim the lights of instruments. You can also just turn on plotters and computers when needed.

Autopilot power consumption varies depending upon load on the system – balance your sails to help the autopilot, and hand steer when possible

Navigation assumed daily use: 112 Ah

Communications

SSB receive	1.5-2A
SSB transmit	25-35A
VHF receive	0.7 - 1.5A
VHF transmit	5A
Satellite phone	0.1-2A

Communications assumed daily use: 18 Ah

Domestic Electricals

LED-Tri-colour light (1 x 1,5W)	0.12A
LED-Separate lights (3 x 1W)	0.25A
LED-Spreader lights	0.4A
Domestic incandescent light	1.5-3.5A
Refrigerator	3-5A
Freezer	3-5A
Pumps - freshwater and bilge	5A
Watermaker low pressure pump type	10A
CD player/stereo	1A
Cabin fan	0.2-1A

To reduce fridge power consumption, increase the insulation of the boxes and the ventilation of the compressor units - this can limit the duty cycle of the refrigerator compressor to 25% and of the freezer compressor to 50%.

Ensure incandescent lights are turned off, and consider switching to low-power LED lights.

Domestic assumed daily use: 70 Ah

Luxury Equipment

Also consider high-usage equipment such as air conditioning – these have not been included in this calculation.

Energy consumed in 24 hours

According to our example, the equipment would take:

Navigation112Communications18Domestics70

Total daily requirement: 200 Ah

Thus 200 Ah out of the battery in a 24 hour period. This energy has to be fed into the battery daily again to avoid a deeply discharged battery.

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Battery Capacity

If we were to only discharge the batteries to 1/3 of their rated capacity before recharging, we would keep a 24h buffer and avoid deep cycling the batteries. Follow this thumb rule which states:

Daily requirement x 3 gives the right size of the batteries - for a daily requirement of 200Ah (12V) the battery should have 600Ah capacity

Recharging the Batteries

With the main engine

These days an engine will have a 14V 115A alternator fitted. This means that the alternator will deliver 115A maximum at 6000 rpm. Suppose that the diameter ratio between the engine pulley and the alternator pulley is 2:1, then the main engine would have to run at 3000 rpm to attain 115A charging current. In practice this is a little high, producing too much noise. For generating current an engine is generally regulated to 1000 to 1500 rpm. The charging current will then be 40% to 80% of the rated values, i.e. 45 to 90A. This would then roughly mean 4 hours of engine generating per day. Not an attractive proposition!

Making engine charging more efficient

It seems reasonable to conclude that we can improve the charging capacity by installing a more powerful or additional alternator. But it doesn't make sense because the battery can only absorb higher current for a short time. The last third of the battery capacity can only be recharged with a low current to avoid gasing. That applies to all lead batteries. The most efficient way to charge the battery by running your engine is when the battery is discharged to 1/3 of its capacity and recharged to 2/3. This best time window for effective charging can determined by installing an ampere-hour meter.



Alternative Electricity Generation

Diesel Generators

For larger yachts these are the most efficient way to generate electricity. They use much less fuel than a main engine, are quieter and can be set to automatically come on when required. The units come in a range of power outputs to suit most needs. However, like all mechanical equipment, they do require regular servicing. It is only too easy to forget this, when the unit is tucked away out of sight in an enclosed sound proof cabinet.

Popular brands of installed diesel generators include Fischer Panda, Onan, Westerbeake and Mastervolt. Some yachts use small petrol/gas portable generators. Although cheap to buy, these are not recommended for fix installation inside a boat due to dangerous exhaust gases and the combustible nature of the fuel, which for safety should be carried on deck.

While generators are reliable, they are often the most common high value item to fail during a passage. Therefore, don't forget the alternate power sources if you do not want to go without your home comforts.

Solar Panels

These can provide a useful boost to your charging capacity, however, when judging the output of solar cells you have to consider in what area and under what conditions you are sailing. For example, in the Mediterranean summer you can expect approx. 20Ah per day from a 50W panel. In the UK summertime, you can expect approx. 12Ah per day from the same sized panel. It is important to mount the panels facing the sun however when sailing, mounted flat on the deck will give best all round performance. Be aware, some solar panels are made using glass which will break if walked on. Specialist non-glass marine panels are available, recommended for on deck use.

Wind Generators

A wind generator will produce 40 to 80Ah per 24-hour period. Traditionally, they could be noisy but modern designs are much quieter. They work best with strong apparent winds, for example, lying at anchor in an open marina. Where current

02. Rally Preparations



consumption on board is low, solar cells and a wind generator can make a considerable contribution and drastically reduce the necessity for using the engine to generate power. Even on somewhat bigger yachts, solar cells and/or wind generators are also very suitable for charging up the batteries and keeping them charged.

Hydrogenerators (propshaft or outboard)

Under sail extra current can be generated using a propshaft alternator (disadvantage:



increased water resistance and wear and tear), or using a small water alternator, transom-hung or towed. This enables about 12W, or 1A to be generated per knot of speed through the water, i.e. 40 to 100Ah in a 12V battery per 24-hour period.

The rope towed hydro-generator has been widely used for 20+ years. However, modern transom hung hydro-generators (Watt&Sea type) are significantly better, as they overcome the difficulties of handling a long towing line, especially when the wind increases. The drag of the towed type is also much higher than transom hung types, causing noticeable loss of speed.

The Watt&Sea transom hung hydro-generator has been used by many ARC and World ARC and comes recommended by several past participants due to minimal drag and excellent power output. Other transom hung types are Duo-gen and SAFE.

Conclusion

Solar cells (1m²) and a wind generator (1m diameter) together can deliver up to 1.4 kWh = 100Ah per 24-hour period, almost enough for you needs at anchor. When under sail with 6kn speed the Watt&Sea transom hung hydro-generator generates 200W. You would be more than self-sufficient by counting 400Ah per 24-hour period.

A good book, such as the **Boatowner's Mechanical & Electrical Manual** by Nigel Calder (ISBN 9781472946676) or **Marine Electrical & Electronics Bible** by John Payne (ISBN 9780713682670) will help you to manage and understand power onboard. See pages 56-57 for more book ideas.

Power Management Top Tips

- Always start with a full battery. Start charging the batteries by running the engine the day of your departure even if you haven't used much energy yet.
- Always start the engine for charging the batteries in the evening to support the power consumption during the night-time hours.
- Try to avoid running the engine to charge batteries while crew is sleeping. But if further battery charging is needed during the night, run the engine during watch changes.
- Always fill up the fridge to its maximum, even if it means packing with bottles of water.
- Turn the fridge thermostat down low when the engine is running, and up afterwards.
- Charge laptops and electrical items like the sat phone when the engine is running.
- Balance the boat to reduce strain on the autopilot or hand steer to reduce power consumption, particularly at night.

Low voltage troubleshooting

- How many hours has it been since you last charged the batteries?
- Is anything running that shouldn't be?
 - Water pump or bilge pump
 - Inverter TV/stereo
 - Lights left on
 - Autopilot working too hard
- Look at the Amp meter; is there a high current draw?
- What's the charge voltage?

If it is 14 Volts:

- Likely the alternator/charger is OK
- Check for loose connections
- Check water in the batteries

If it is less than 14 Volts

- Likely problem alternator/regulator/ charger
- Check belt broken or slipping
- Check alternator and regulator
- Make sure charger is ON
- Check circuit breakers on charger

02. Rally Preparations



Electronics on board

This section was prepared by leading marine electronics provider, Raymarine. Visit the Raymarine Service and Support web pages at www.raymarine.co.uk

Demand is usually very high for local electronics agents and support staff on site before the rally. Last minute issues and final software updates may be able to be handled as part of your preparations, but larger jobs such as reinstallations and rewiring should be undertaken well in advance. It is important that you do not leave your electronics set up or checks until the last minute, but spend quality time now checking and testing your electronic systems.

Visit the Raymarine Service and Support web pages at www.raymarine.co.uk/service-and-support/

For:

- Download of instruction manuals
- Product Registration
- Frequently Asked Questions
- Repair and Warranty
- Software Updates
- Locate a Raymarine Dealer



Top Tips

- The key to satisfaction is selection! Choose the right product in the first place, decide what you want it to do and for how long; is it just an auxiliary or is it a replacement crewperson?
- All electronics are susceptible to power surges and spikes, so good supply and power management is essential. High resistance connections, thin cabling, dirty fuse holder contacts will all cause operational problems – if in doubt, double up on cabling.

- Carefully calculate battery capacity
 versus power consumption and ensure
 that electronics are not on same circuit as
 winches, A/C or other heavy current devices.
 As autopilots become larger, they become
 more susceptible to power 'brown-outs' than
 smaller units.
- Battery connections are critical as high resistance connections will drop volts and lead to constant power shortages for the autopilot.
- Wiring may look very neat and tidy, BUT if it is TOO tight, it will stretch and may fatigue on a boat and lead to random or intermittent connections, ventilation must be adequate to allow for control of temperature and humidity around the electronics and connections should be easy to access for maintenance.
- Compasses are the heart of any good autopilot system and the better the location the better the performance – if the compass is in a bad position, no amount of calibration will improve the performance of the pilot.
- The ideal position for the compass is at the pitch and roll centre, however, this will often mean that other equipment will affect the compass, so move it aft, outboard and up. Watch out for cabling carrying other signalling data, high voltages or high current, Loudspeakers, engines and keels. Height above a deviating source has a better effect at reducing deviation, than horizontal distance, but too high will induce roll errors. Avoid mounting near the bow to avoid shock from the boat ploughing into a head sea.
- Be wary of wiring runs too, the cabling should avoid being bundled with powerful signal cables as interference can be picked up and send erroneous messages to the computer leading to poor steering performance. The below decks units are splashproof, but not submersible, so mount above the potential bilge water line!
- Look for obvious issues, untidy cabling, poor mounting/support for equipment, these are all indicators of a potential problem.
- Make sure cabling is tidy and well supported – but not stretched tight, follow cable runs looking for stress points and damaged insulation.

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- Check the autopilot drive unit mounts are secure and no signs of cracks in gel coat on the local area suggesting stress.
- Lubricate mounting bolts to avoid corrosion and ensure all locking pins are secure.
- Ensure all crew know where the compass is to avoid placing deviating items nearby, (tools, tins, electronic equipment, etc ...)
- Always swing compass every year as the deviation signature of the boat will change from time to time.
- Clean all deck mounted displays and equipment regularly to avoid build-up of salt and corrosion – use only tepid fresh water – avoid solvents and abrasives at all costs!
- Check security of connections and cables to eliminate poor connections and high resistance joints and contacts due to corrosion.
- Check voltages to avoid voltage drops, ensure batteries are in good condition and regularly maintained – batteries may have a good voltage when equipment is turned off, but may not hold a charge and will quickly discharge.
- Ensure access is available to equipment for future servicing.
- Update all serial numbers in log book and keep the information on board the boat
- Sketch out the installation of what equipment is mounted where, it can save hours if all junction boxes and connections are logged down and located
- Sketch out as much as possible the installation cable runs, cable colour coding and ideally identify cable ends so they can easily be identified.
- Make sure your warranty cards are completed and stamped and warranties registered on the website or cards are returned to Raymarine.
- Check all calibration settings, sea-trial the boat and ensure you are confident in the operation of the equipment, record all calibration settings in the log book.
- Read the manuals it can save hours of frustration!!
- Plugin 12v multisockets for USB devices.
- Small inverter for laptop

Spares and Useful Parts

This section was first written by round-the-world skipper Julian Wilson, and has been updated by Bill King of professional yacht delivery company PYD www.pydww.co.uk

Most boat systems have items designed to wear down, corrode or break. Smaller parts will selfsacrifice in the name of saving the whole. These are generally the 'serviceable' parts.

What spare parts to carry?

Both budget and available space can significantly constrain quantities of spare parts stowed aboard a cruising yacht. In an ideal situation, if something breaks it is replaced with a new one rather than repaired. This is often impractical for many reasons, but it also somehow defies the cruisers' ethos of being self-sufficient at sea and recycling. The spares you carry can be the difference between a good trip and a bad one.

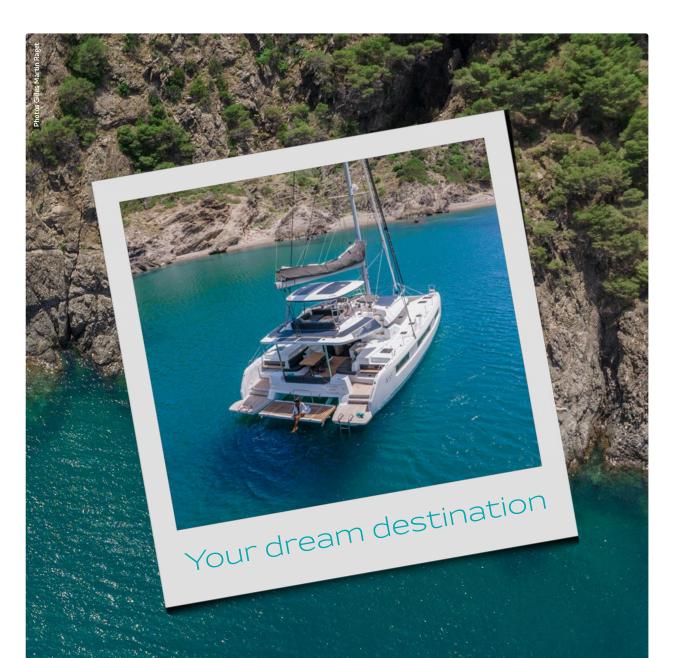
It's well worth considering keeping a few major items in your spare parts locker. For instance, how much easier is it to replace an entire water pump whilst on passage than to strip down the broken one and mess about with impellers or diaphragms? However, this is often far from practical and can be expensive. Repairs are nearly always best done in harbour where there is less motion.

There are three main categories of spares:

- 1. Safety: Items that allow your yacht to float and go in the direction you want it to go in, therefore parts for the maintenance and repair of sails, engines and bilge pumps.
- **2. Comfort**: Spares for maintenance of onboard cooking facilities, fresh water pumps and toiletry needs.
- **3. Luxury**: Parts for non-essential items that make for a more pleasant cruise, such as fishing tackle spares.

Many spares will fall into more than one category, but you have to decide necessity over cost - spare autopilot or just a spare drive?

If there is the budget and space then you may like to consider the list of 'essential' spares below. This has to include a complete toilet pump. Nobody likes to dismantle a toilet pump at sea. Easier to unbolt the old one and install a new one - only ten minutes of unpleasantness. Put the broken pump into a couple of plastic bags



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and store it for servicing ashore, where it can be stripped, sanitised, repaired and made ready for the next occasion. Well worth the investment!

Extended cruising spare parts list:

- Toilet pump complete.
- Toilet pump service kit.
- Fresh water pump complete.
- Fresh water pump service kit.
- Engine and generator spares: impellers, fan belts, anodes, filters (air, oil and fuel).
- Engine and generator oil (for 2 complete oil changes each). Hydraulic fluid.
- Autopilot spares, belts, motors etc.
- 2 large snatch blocks and 2 large snap shackles. Other assorted spare shackles in sizes used aboard, eg. for mainsheet and kicker/vang tackle.
- Sail repair: sticky backed Dacron/polyester (large sheet), 3 rolls spinnaker tape and sail repair kit, including plenty of needles, waxed thread, a sailor's palm and whipping twine.
- Spare ropes of various lengths for use as sheets, halyards, mooring lines etc.
- Watermaker service kit with chemicals and oil.
- Spare gas regulator and 1m gas hose.
- Spare lifejacket gas cylinders (minimum one per life jacket) plus spare lights.
- General: good handful of hose clips, nuts, bolts, washers, screws, cotter pins, split pins, contact and epoxy glue, cable grips (size suitable for repairing steering cable) and shackles, gasket glue, tubes of silicone, gaffer tape and self-amalgamating PTFE tape.
- Electrical spares: fuses, bulbs (for navigation lights), wire, connectors and multimeter.
 Spare batteries for flashlights, handheld GPS.
 Soldering iron and solder wire. Can of WD40.
- Diesel biocide.
- Gas powered hot knife, for sealing rope ends, tears in synthetic fabric etc.
- High capacity manual pump with long hose.
- Sta-Lok emergency rigging kit.
- Spare winch handles and keys for tank caps.
- Winch pawls and winch pawl springs
- Bilge Pump diaphragms
- Winch/graphite grease

Tools and Toolkit

On long ocean passages, a good toolkit is an essential component of your safety kit. You will need to fix and repair things at sea and will need the tools to do so onboard with you.

Recommended Contents:

- Ring and open spanners (various sizes metric and imperial)
- Socket set
- Adjustable spanners (large and small)
- Hammer
- Screwdrivers various sizes flat blade and cross-head
- Insulated electrical screwdriver
- Multimeter and/or continuity tester
- Pliers
- Long nose pliers
- Engineer impellor removal tool or angled pliers.
- Mole grips
- Allen keys
- Cable Snips
- Soldering Iron
- Hacksaw and blades
- Sail repair needles and twine
- Spinnaker repair tape

If you have power tools onboard, make sure that they are the correct voltage for the yacht's systems and you are carrying the right connections to recharge battery power tools.



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Water Management

Water is undoubtedly one of the vital things to plan for. As a minimum you should allow 2 litres (2 quarts) of drinking water per person per day, and up to 3.5 litres in warm weather.

In a survey of round the world yachts, the average water consumption worked out at 14 litres (3.7 US gallon) per person per day. However on the boats that did not have watermakers, the average consumption was only 7 litres (1.8 US gallon) per person per day. It was also clear that boats with pressurized water systems used much more water.

Watermakers

Watermakers
have made a great
difference to water
consumption and
have brought in a
whole new era of
water management.
The latest generation
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watermakers are very effective and reliable, but if you have one you should still plan to start with full tanks and use the watermaker to top up at regular intervals - just in case of failure.



Another advantage of having a watermaker fitted, is that

it can help reduce plastic usage on board. Rather than buying bottled water in single-use plastic, use you tank water via a carbon filter in the galley sink. Have your watermaker installed professionally, and talk to the manufacturer about how to maximise output. Watermakers work better in warm water than in cold, so you should find output increasing just when you need it.

Water Onboard

See page 74 for a water planning guide.

Plan to start the passage with full tanks, but it is sensible to carry a reasonable amount of water in additional containers - ideally plastic containers - both to extend the supply and to act as a reserve in the event that something contaminates the main tanks or they leak. The large plastic bottles

of drinking water available in most places are preferred by many as the water has a better taste. When carrying water in additional containers, don't fill them completely full, as they will then float if thrown overboard in the event of an emergency.

You can reduce water consumption by fitting a salt-water pump in the galley and using it for the initial washing of crockery, pots and pans, but you may want to rinse with fresh water. Seawater should be diluted if it is used for cooking as it is saltier than the general requirement for cooking.

Boats with more than one tank should have their tanks on separate systems so that they can be isolated from each other. Use one tank at a time so that a leak in the system won't lose all your water.

It is also a good idea to turn off pressurized water systems and rely on manual pumping fresh water. This has two benefits: firstly it reduces consumption; and secondly, in the event of a leak, it prevents all your fresh water being automatically pumped straight into the bilge.

If you don't like the taste of tank water, fit a charcoal filter before the cold water tap - these are easily bought from hardware stores.

Educate your crew in simple water saving techniques, such as not running the shower or tap continuously when washing or cleaning teeth. Using a mug for teeth cleaning and a face cloth can cut down water consumption dramatically!

Holding Tanks

Some countries require that boats are fitted with a holding tank for black water (or sewerage). Where possible, a good capacity tank should be fitted, to give crews more time between pump-outs. Having to leave a pleasant and secure anchorage just so the holding tank can be emptied is annoying! Grey water (sink and shower waste water) tanks can also be fitted.

Please ensure that your crew are aware of the need to use shore-side facilities for toilets, showers and clothes washing wherever possible. Recycled toilet paper will break down more quickly than 'luxury' toilet paper, and consider using ecologically-friendly cleaning and washing soaps.

Many countries have laws stating that the discharge of sewage within the 12nm territorial limit is an offence, and some also regulate the discharge of grey water. If in doubt, use pump-out

02. Rally Preparations



stations where these are available, or discharge more than 5nm offshore. Never discharge black or grey water over the side in sheltered waters, close to land, in non-tidal waters, or within protected or restricted zones. For details on different country regulations, please see www.noonsite.com

Cooking Gas

Propane is the cooking fuel for most Americanmade marine appliances. In Europe, butane (blue bottles) is the fuel normally used for marine appliances. Butane bottles can be exchanged one for one, or refills can be arranged.

Dual-fuel stoves

Butane has different burning characteristics from propane. Check with your stove manufacturer to find out if you can use either gas and if adjustments are necessary. Having a system that can handle both types of gas is a good idea if sailing for long periods beyond home waters.

Refills

Butane bottles/tanks should never be refilled with the same amount of propane as propane is at a higher pressure. Filling gas bottles in different countries can be problematic, and the easiest solution in certain areas of the world may be to buy a local bottle.

If you are considering extended cruising, or know you will be visiting an area with a different gas system than that onboard, leave home with new gas bottles of both types (propane and butane), as once cruising it is likely to be your own bottles that will be refilled, rather than exchanged. Have a good selection of regulators and fittings for your bottles on board, as having the right fitting may make the difference between getting gas and not. Consider a multi-country adaptor kit available from www.whayward.com, or European adaptor sets from www.svb24.com. In some ports either butane or propane can be refilled, but not both, hence the importance of running a dual system.

Gas bottles can usually be filled just about anywhere, but any older than 10 years old will not normally be accepted for refill. For this reason it is important to keep bottles in good condition, and to treat any surface rust when it appears. Plastic/Fiberglass bottles canisters are lighter and rust-free. For information on refilling options during the rally, see the Local Information section.

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02. Rally Preparations



Medical

Prepared with the assistance of Ian Hardy B.Pharm M.R.Pharm.S, the 'First Aid Pharmacist' www.seamedic.co.uk

The skipper/owner has a legal duty of care for the crew, and is ultimately accountable. It is highly recommended that the boat has a copy of **The Ship's Captain's Medical Guide** (ISBN 9780115516580) or an international equivalent. Remember that medical advice can be sought from Radio Medical Advice via MRCC/ coastquard.

First Aid Kits

These are some general suggestions for the boat's first aid kit:

- Alcohol-free moist wipes
- Gauze sterile swabs
- Pocket face mask for mouth-to-mouth
- Assorted sticking plasters, including knuckle/ finger plasters
- Surgical tape
- Large adhesive wound dressings
- Medium (120x120mm) sterile dressings
- Large (180x180mm) sterile dressings
- Adhesive suture strips (steri-strips)
- Sterile eye pads
- Eye wash 0.9% saline solution
- Finger bandages
- Triangular bandages
- Elasticated crepe bandages
- Gel burn dressings
- Non-latex gloves
- Scissors, tweezers, safety pins etc
- Foil blanket
- Thermometer
- Instant ice and heating packs
- Splints (such as SAM Splints)
- Emergency dentistry kit
- Pre-threaded suture kit

In addition to the main first aid kit, it is worth having an extra small daily kit for use on deck and for taking ashore. In more remote countries, take a sterile treatment kit ashore in case emergency medical care is required and you are unsure of local hygiene. This should include sterile syringes, intravenous cannula and suture kit.

Bespoke modular kits with all you need for the rally and your onward cruising plans can be purchased from specialist suppliers such as www. msos.org.uk or https://shop.sailpartner.de

NOTE: Having medical kits shipped internationally is extremely complex due to IATA restrictions. Plan ahead and purchase in your home port.

Medicines

You should seek advice from your Doctor before deciding which drugs and preparations to carry onboard. As an aide memoire, the following types of medicines are useful:

- Painkillers of different strengths (suppositories are more effective than oral pain killers)
- At least two different types of broad-spectrum antibiotic - check penicillin allergies
- Laxatives (glycerine suppositories)
- Diarrhoea relief
- Antacids if required
- Rehydration salts electrolyte balanced
- Sea sickness preparations
- Muscle relaxants
- Fast acting oral antihistamines
- Pre-loaded adrenaline syringe for anaphylaxis
- Anti-malarials (if required for cruising area)
- Common cold remedies
- Preparations for thrush/vaginal infections

External Preparations

- Antiseptic preparations
- Antibiotic ointment
- Hydrocortisone ointment
- Eye drops (antibiotic and anti-inflammatory)
- Ear drops (hydrogen peroxide type)
- Anti-inflammatory gel
- Local anaesthetic gel
- Anti-fungal preparation

Buying Medicines

The best practice for obtaining medicines for the boat's stores is direct from a pharmacy. The skipper/owner has authority to purchase drugs for the boat. Write a letter with full contact details, boat details and the drugs required, and take it to a pharmacy with the boat's registration papers and skipper/owner's passport. Local laws may vary, but this will be the best starting point.



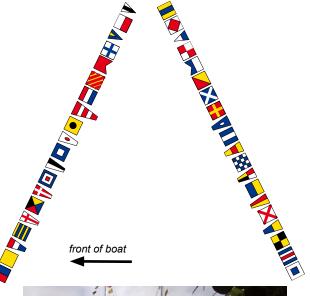
Dressing Overall

All rally yachts are asked to dress overall (decorate the boat with signal flags) while in port to create a festive atmosphere and to show respect to our hosts.

You will need at least one full set of international signal/code flags to dress your boat. The correct sequence of flags for dressing overall is below, and it is also usually listed in manuals of seamanship or nautical almanacs. When putting your flags together, remember that they should all be the correct way up, so you need to work from the top of the mast downwards. Rigging downhauls is a good idea.

From forward to aft:

E, Q, p3, G, p8, Z, p4, W, p6, P, p1, I, Code/AP, T, Y, B, X, 1st Sub, H, 3rd Sub, D, F, 2nd Sub, U, A, O, M, R, p2, J, p0, N, p9, K, p7, V, p5, L, C, S





Pets Onboard

It is possible to cruise with pets, but entry requirements and quarantine laws vary around the world, and it will require significant forward planning. Local officials may not be used to yachts arriving with pets, and obtaining the necessary health certificates en route can require forward planning. Some remote places will have no official able to process entry for a pet, and so the animal will not be allowed ashore.

Vaccination and treatment certificates from a vet are usually required to obtain a health certificate and import permit/license, and treatment often has to be proven within a fixed period of time. Import licenses are usually required to be lodged in advance of arrival.

We recommend that you seek advice from officials in the countries you intend to visit as soon as possible. There is information on the rally ports in the Local Information section, or visit www.noonsite.com for information on regulations for individual countries.



Firearms (Guns)

It is strongly recommended that yachts do not carry firearms on board. A daily radio net will be run on all legs and local Coastguards will be informed of our route. Therefore the organisers feel that the need for firearms is minimal, especially as in the majority of countries that the rally visits, firearms have to be delivered ashore to be bonded by customs or police.

Skippers will be responsible themselves for seeing that the firearm regulations in various countries are complied with. This matter will not be dealt with by World Cruising Club staff.

For information on local regulations, see www.noonsite.com