

# s/v Della Jean UPGRADES and REPAIRS

## **Morton Marine Services**

1. **DONE.** Replace and seal the below the waterline thru hulls with official MARELON thru hulls and official MARELON flanged sea cocks attached to marine grade backing plates with SST screws from inside the hull. Backing plates to be sealed to hull with proper sealant/adhesive. Lubricate valves and reconnect hoses with 2 SST band clamps each fitting.
2. **DONE.** Replace and seal all of the above the waterline thru hulls with official MARELON thru hull fittings and properly reconnect the hoses.
3. **DONE.** Replace the stuffing box hose (pedro hose) with stuffing box hose equivalent to original designed for a stuffing box for the propeller shaft seal. Re-align the engine-transmission-propeller shaft drivetrain to within factory specification.
4. **DONE.** Replace Cutlass bearing, tiller cap with new SST, and prop shaft with new SST.
5. **DONE.** Remove corrosion and clean the bronze propeller shaft packing gland fittings, then re-pack with flax / Gore Inc (or GFO?) packing material and tighten per factory specification to minimize water leaks.

## **Shelter Island Boat Yard**

6. **DONE.** Repair gelcoat damage on Stbd bow and above the Stbd rub rail. See photos attached below.
7. **DONE.** Properly protect the below waterline thru hull fittings, prepare and paint the hull bottom with red ablative type anti-fouling paint. Used Interlux Ultra, 3 coats waterline, 2 coats remainder.
8. **DONE.** Clean 1 inch diameter propeller shaft and 15 x 9" propeller, then replace existing zincs with new on shaft and strut.

## **Pacwest Marine & Industrial**

9. **DONE.** Repair or replace with new, the exhaust riser pipe. Rewrap the exhaust riser pipe with insulation per factory specification, and re-connect the insulated exhaust riser pipe to the Aqualift muffler box with a new hose and SST band clamps per factory specification.
10. **DONE.** Remove existing metal fittings connecting the hoses to the raw water pump and replace with fewer fittings ensuring hoses have enough slack to allow for vibration per the survey recommendation.
11. **DONE.** Replace the two cooling hoses on the engine painted gold that per the survey, are original hoses. Pacwest Marine & Industrial performed the survey.

## **Oceanview Marine Services**

12. **DONE.** Remove the registration stickers, CF numbers, current boat name, and hailing port, then polish and wax/buff the hull and topsides.
13. Address the cosmetic fading and oxidation of the green stripes on the hull.

## **Shelter Island Sign Shop**

14. **DONE.** Replace Swell with the new name DELLA JEAN on each side to cover old name, and hailing port SAN DIEGO, CA on the transom per discussion with Shelter Island Sign Shop.

## PHASE 2 UPGRADES and REPAIRS

1. **DONE.** Replace engine harness from engine to cockpit control panel and ammeter with new voltmeter, new wiring, add new fuse to power wire, and wire organizer on engine. Run individual grounds for engine harness, fuel pump, fuel tank, tank level switch, blower motor, HX.
2. **DONE.** Add longer snaps to engine control panel tray for sunbrella cover.
3. **DONE.** Upgrade the gooseneck and boom cap with the parts ordered from Catalina Direct.
4. **DONE.** Add SST 5/32 backing plates with washers on 10 life line stantions.
5. **DONE.** Removed filter screen at the end of the fuel pick up hose in the fuel tank, and replaced existing pick up tube with longer SST tube, no hose, and no filter. Raised tank vent hose to be as high as possible without kinks in hose.
6. **DONE.** Replace all internal fresh water system pressure, drain, and vent hoses.
7. **DONE.** Replaced galley sink drain fittings and check valves with angled exit port style from Defender.
8. **DONE.** Added strainer to shower sump drain, new Jabsco check valve, and attached head water sanitizer to bulkhead.
9. **DONE.** Replaced brass idler pulley pins in steering system with SST pins from Edson.
10. **DONE.** Tighten the engine air inlet housing and add foam filter per engine survey.
11. **DONE.** Plug eyebrow holes on cabin roof and near anchor locker with sealant, SST screws and SST finish washers. C34 IA recommends #4 by ½ long flathead screws.
12. **DONE.** Provide federally required, approved and current distress signal flares.
13. **DONE.** Service/replace the seizing wire at the starboard spreader.
14. **DONE.** Build a motor bracket to attach to cockpit railing for the dinghy outboard motor.
15. **DONE.** Service the BBQ grill attached to cockpit stbd railing to stop rattles.
16. **DONE.** Maintain the fire extinguishers per N.F.P.A. recommendations.
17. **DONE.** Maintain the inflatable type flotation devices per the manufacturers' recommendations.
18. **DONE.** Tighten the self locking nuts on the boom bails on the mainsheet per rig survey.
19. **DONE.** Determine the significance of the loose screws on the forward side of the port bulkhead between the saloon and forward cabin. Address the cause of this condition and re-tighten / replace screws as necessary with matching fasteners on the starboard bulkhead.
  - a. Per Warren Pandy at Catalina Technical Service, the loose screws on the forward side of the port bulkhead between the saloon and forward cabin are not structural. The bulkheads are fastened to the hull/cabin/deck with adhesive with no reports of an issue. Sailing the C34 without bulkheads installed is part of design testing. Re-tighten / replace screws with fasteners matching the starboard bulkhead.
20. **DONE.** Properly install the battery charger per the manufacturer's recommendations. The battery charger should be secured. Replaced with new & secured with Velcro until Phase 3 charging system upgrade.

## PHASE 2 UPGRADES and REPAIRS (cont)

21. **DONE.** Replace the burnt connector on the spare shore power cord. Removed from boat.
22. **DONE.** Install a carbon monoxide alarm.
23. **DONE.** Exercise caution when plugging in the GPS as the connector on the back of the unit is damaged. All to be replaced with future electronics upgrade.
24. **DONE.** Exercise caution at fuel docks as the fuel fitting is labeled fuel and not diesel. Surveyor recommends replacing the cap with a cap labeled diesel.
25. **DONE.** Paint inside all lockers, access/storage ports, and hull section under aft cabin with white bilgekote to improve visibility.
26. **DONE.** Determine why the water pressure pump functioned intermittently. Addressed by cleaning terminal connections.
27. **DONE.** Service and prove the handheld VHF properly functional as there was an intermittent connection at the plug in the cockpit. The handheld mic works properly. Cleaned the pins in the cockpit connection plug, but connection not working. May need new plug and cable.
28. **DONE.** Address window curtain tracks and attachments to cabin walls/roof.
29. **DONE.** Service iced over refrigerator as necessary. Professional hired to replace evaporator, nitrogen purge lines, drew vacuum, and added new freon.
30. **DONE.** At least two of the light fixtures, which are apparently not wired into the vessel's system were inoperative, including one in the head and one in the galley. Both are battery powered lights. Replaced batteries.
31. **DONE.** Installed a hook for the forward side of the forward cabin door.
32. **DONE.** Remove engine compartment insulation and replace with new from Soundown.
33. **DONE.** Replaced both hinges on refrigerator door.
34. **DONE.** Installed piano/continuous hinge and small handle on top engine compartment lid. Added small zip tie to screw attaching the sound insulation to attach a bungee cord to hold the lid open when servicing the engine.
35. **DONE.** Cleaned and tightened all lifelines.
36. **DONE.** Removed all excess Cetol/varnish on all internal surfaces.
37. **DONE.** Added second midship mooring cleat on the jib track.
38. **DONE.** Replace 4x 15 foot dock lines with new and added two additional 25 foot dock lines to use as spring lines, or for long reach moorings.
39. **DONE.** Cleaned all opening portlights with Plast-X to reduce cloudiness.
40. **DONE.** Tightened allen screws in door knobs so they don't slip when turned.
41. **DONE.** Added liner to shelf bottoms in galley storage shelves.
42. **DONE.** Modified underside of wood cover over holding tank and below salon cushions to eliminate interference between the holding tank vent fitting and the cover.
43. **DONE.** Clean port cockpit lazarette and seal all internal seams with waterproof sealant.

## PHASE 3 UPGRADES and REPAIRS

1. **DONE.** Upgrade 12V charging system and replace existing batteries with 4x 6V 225Ah Golf Cart batteries for the house bank in the battery box, plus 1 reserve 12V battery. Add a Balmar MC-614 external voltage regulator, Xantrex Digital Echo Charge, BMV-700 battery monitor, relocate 1-2-B battery switch to the side of the battery box/compartment, increase cable and wire gauge and add fusing for overcurrent protection per ABYC standards.
2. **DONE.** Upgrade AC/DC Distribution Panel to include a SmartGauge, and dual bilge pump Circuit Breaker's.
3. **DONE.** Install SmartPlug shore power connection and new shore power cable.

## PHASE 4 UPGRADES and REPAIRS

1. **DONE.** Re-bed chain plates with Bed-It Butyl tape.
2. **DONE.** Install a Rule 3700 electric bilge pump with float switch as a 2<sup>nd</sup> electric bilge pump.
3. **DONE.** Install Trident #147 Marine Bilge and Baitwell hose, 1 1/2" ID (147-1126) from bilge pump to transom.
4. **DONE.** Add a Whale Pumps 1 1/2" Y connector to join the manual bilge pump and Rule 3700 bilge pump discharge hoses. Install anti-siphon valve in electric bilge pump hose before the Y-connector.
5. **DONE.** Remove the existing Rule 1500 electric bilge pump 1 1/8" hose and inline check valves. Replace with Trident #147 Marine Bilge and Baitwell hose, 1 1/8" ID (147-1186), and an anti siphon valve located high as possible under the galley sinks.
6. **DONE.** Upgrade the outhaul system from OEM original to 10 to 1, new boom end cap, and new sheave.
7. **DONE.** Run new communication cable (OPC-1000) for VHF Command Mike in cockpit.
8. **DONE.** Replace existing cockpit drains with new 1 1/2" Marelon screened scupper drains. Correct surface under cockpit so new cockpit drains seal properly.
9. **DONE.** Install 2 new cockpit drain hoses using Trident #147 Marine Bilge and Baitwell hose, 1 1/2" ID (147-1126).

## PHASE 4A UPGRADES and REPAIRS

1. **DONE.** Remove existing single small bottle propane locker from aft lazarette. Replace with a code compliant two tank propane locker that accommodates a Manchester low profile 11# tank 10393-1 for the galley stove/oven, and a Manchester 5# propane tank 10054 for the Magma BBQ grill mounted externally on the stern pushpit rail.
2. **DONE.** Remove and replace existing propane hose with new hose from the propane locker to the stove/oven.
3. **DONE.** Add a new separate propane hose from the propane locker to the Magma BBQ grill mounted externally on the stern pushpit rail.
4. **DONE.** Install a Xintex Fireboy S-1A propane on/off switch and detector alarm.

# PHASE 5 UPGRADES and REPAIRS

## Shelter Island Boat Yard -

1. **DONE.** Repair gelcoat cracks on:
  - Port side deck where the cabin meets the deck by the port chain plates.
  - Cockpit fillets where sides meet cockpit floor.
  - Areas marked with blue tape.
  - See photos attached below:

## CC Rigging-

1. **DONE.** Remove the mast and boom. Locally remove surface corrosion on both then sand, prep, and repaint with Interlux 216 Special Thinner, Interlux Brightside Pre-Kote Primer (white), and Interlux Brightside One Part Polyurethane (white) top coat.
2. **DONE.** Replace non-working anchor light with Tri-color/Anchor/Strobe LED type. Use OGM.
3. **DONE.** Replace existing VHF antennae with new SHAKESPEARE 5215 VHF antenna and SHAKESPEARE PL-259-G Connector for RG 213 coax cable.
4. **DONE.** Add i70 System Pack with Wind, Depth & Speed Transducers.
5. **DONE.** Add CPT-110 CHIRP sonar instrumentation and associated thru hull transducers under V-berth.
6. **DONE.** Attach Raymarine Quantum CHIRP Plus radar antennae to the mast with a Seaview mast mount SM-18-R and SM-G24-U SST guard. Run cables through mast to interior.
7. **DONE.** Replace non-working Loran screen with a 9" Raymarine eS98 Series MFD chartplotter with CHIRP Downvision Sonar. Mount in same location at the Navigation Station.
8. **DONE.** Add a NMEA 2000 network system from Raymarine (SeaTalk NG).
9. **DONE.** Replace standing rigging with 1 x 9 316 SST 5/16" wire. Use 5/8" pin for center shroud chainplates. Verified all fittings and both spreaders on the mast are in good condition for extended cruising.
10. **DONE.** Replace 1/4" SST stem head fitting and bow anchor roller assembly with 3/8" SST stem head fitting and 1/4" anchor roller design.
11. **DONE.** Install 1 1/4" T-track on the mast. Then install a whisker pole onto the track with line system to raise and lower the pole with chock at the bottom of the mast to fasten the pole in place.
12. **DONE.** Add a courtesy flag line with snap shackle, and pulley to the starboard spreader to match the existing line, pulley on the port side.
13. **DONE.** Add Mogle radar reflectors to center port and starboard shrouds.
14. **DONE.** Added a Spinlok XAS clutch to the bottom third of the mast but above the cabin for the jib halyard to be stored on instead of it leading back to the cockpit.

## PHASE 5 UPGRADES and REPAIRS (cont)

15. **DONE.** Replace the existing reef lines with new and add blocks at the base of the mast for a second reef line and lead all other lines to the cockpit.
16. **DONE.** Add a Lazy Jack system for the main sail. Lazy Jack set-up to be retractable out of the way and back to the mast from the cockpit when the main sail is raised and underway.
17. **DONE.** Replace the existing two pulley deck organizer with a two level two pulley deck organizers to accommodate reef lines and Lazy Jack lines being led back to the cockpit.
18. **DONE.** Replace port and starboard double fairleads on bottom of traveler bridge with triples to accommodate increased lines running to cockpit.
19. **DONE.** Lead two new reefing lines, main halyard, the main sheet control line, Lazy Jack control lines, whisker pole, and traveler control lines to the cockpit so all can be controlled from within the cockpit.
20. **DONE.** Replace existing clutch and jam cleat on the starboard side cabin top under dodger with a triple Spinlok XAS clutch on either side of companionway.

## PHASE 6 UPGRADES and REPAIRS

1. **DONE.** Replace the TV / telephone connection and inlet cover with gasketed teak blanking plate.
2. **DONE.** Replace window gaskets for all opening portlights in the V-berth and main salon.
3. **DONE.** Replace Bomar trapezoidal hatch gasket in the V-berth with new gasket from Catalina Direct.
4. **DONE.** Replace hatch dog on Bomar trapezoidal forward hatch with locking type.
5. **DONE.** Replace springs in cabin top cam cleats used with the traveler lines.
6. **DONE.** Replace incandescent deck level Navigation Lights with LED type.
7. **DONE.** Replace damaged fender with 8" x 20" Taylor made "Big B" fender.
8. **DONE.** Replace dock lines with 5/8" x 35 foot long dock lines.
9. **DONE.** Replace pencil zinc in heat exchanger.

## PHASE 6A UPGRADES and REPAIRS

1. **DONE.** Fix leaking macerator pump.
2. **DONE.** Revise 1 ½” sanitation hose run to raise the macerator pump/motor up as high as possible on the bulkhead to improve future pump maintenance.
3. **DONE.** Replace broken hinge on door to water tank valves and fresh water pump under galley sink. Relocate hinges from the bottom of the door to the vertical side of the door so door will open towards the fridge and stove/oven instead of down to the floor.
4. **DONE.** Add Blue Seas fuse block and wire 12 VDC outlets to this point.
5. **DONE.** Remove the foot pump under the galley sink from refrigerator drain line. Replace with a pvc ball valve and lead short ½” line to drain the water to the hull and into the bilge.
6. **DONE.** Replace frayed genoa sheets with new ½” Sta Set 9200 lb breaking strength.
7. **DONE.** Design new horizontal windlass support structure and smaller matching doors to replace the OEM double doors on the anchor locker. Fabricate out of aluminum, or SST.
8. . Add electric windlass with remote control and chain counter in the cockpit.
9. . Re-bed lifeline stanchions with Bed-It Butyl tape.

## PHASE ? UPGRADES and REPAIRS

1. Add Bimini connected to existing Dodger.
2. Add two 140W solar panels to top of Bimini, and install solar controller near Echo charger under stbd settee by fwd water tank.
2. Replace all cabin lighting with LED type.
3. Remodel salon area to add doors and cabinet faces to port and stbd shelving to increase storage and secure belongings while under way.
4. Add 12VDC plugs and USB ports in new cabinet faces.
5. Build storage framework under V-berth for tools, old sails, etc.
6. Add boat hook fastener system of some kind to cabin top.
7. Build storage shelves for the companionway doors to stow when not in use.
8. Build storage shelves to attach to back of head locker door for additional storage.
9. Buy pot holders for top of galley stove.
10. Address the “scratch” damage to the aft cabin door jamb as desired.
11. Address the water damage on the bulkhead above the starboard locker in the forward cabin. Eliminate any water leaks as applicable.
12. Address crazing of windows, hatches and port lights as desired.
13. 12VDC Cabin fans.
14. 12VDC stereo and speakers, TV, DVD/Blueray.
15. Replace main and head sail in 2017.
16. Add a Gale sail.
17. Replace the in-line shut-off valve on the fuel tank.
18. Add in-line fuel shut-off valve at the Racor filter inlet.