

Steps to Remove Engine to Remove Transmission

1. Winterize engine
2. Empty bridge deck locker and remove locker
3. Drain "seawater"
4. Check prop shaft spinning with engine RPM to determine if trans or prop problem.
5. Winterize the pressure seawater system, including head
6. Disconnect starting battery positive
 - a. Moved FB2-1 (30A) to unused fuse position
 - b. Remove B2-6R wire from PP2
 - c. Wrap B2-6R wire lug with black electrical tape
 - d. Remove 25-2R wire from PP3
7. Wiring
 - a. Label all wires!
 - b. Undo wiring to alternator
 - i. Remove 23-2R wire from alternator
 - ii. Remove black wire and braid from alternator ground lug
 - iii. Remove two-position connector (blue and white wire) from back of alternator
 - iv. Remove two signal wires from 10mm bolt on alternator back
 - c. Undo wiring to starting motor
 - i. Remove 03-1/0R, 93-2/0R from starting motor
 - d. Undo engine cable connector
 - e. Undo engine ground
 - i. Remove 18-2/0B, 33-2B, and 94-4B from starting motor ground
 - ii. Remove green bonding wire from bracket on starting motor ground
 - f. Undo engine alarms wiring
8. Put down indoor/outdoor carpet on cabin sole
 - a. Cut out access for sole floorboards
 - b. Put down hardboard on top of carpet
9. Drain coolant
 - a. Use pump to empty reservoir in starboard cockpit (~1 gallon)
 - b. Use pump to empty overflow reservoir in starboard cockpit
 - c. Use pump to empty reservoir on top port side of engine
 - d. Take off heater hose near thermostat and use pump to evacuate coolant
 - e. Take off heater hose on starboard side of engine that goes to the water heater and drain out coolant
 - f. Total coolant removed was around 2.25 gallons
10. Disconnect trans cable, throttle cable, stop cable
11. Disconnect exhaust hose from water hush muffler
12. Diesel Fuel
 - a. Close fuel to Racor
 - b. Drain some fuel out of the Racor
 - c. Disconnect the fuel hose from the Racor to the engine

- d. Plug fuel line so dirt doesn't get in
 - e. Disconnect the return line from the engine to the tank
13. Seawater
- a. Disconnect seawater intake to pump
 - b. Disconnect seawater injection at exhaust loop
 - c. Disconnect seawater hose from engine that goes to exhaust loop
14. Unbolt oil filter assembly from above engine and secure assembly to the engine so that it won't interfere with engine removal
15. Disconnect prop from trans
16. Unbolt engine mounts from engine bed
17. Lift out engine!

From Westerbeke Manual:

RIGGING AND LIFTING

The engine is fitted with lifting rings. Rope or chain slings should be attached to the rings and the engine lifted by means of tackle attached to this sling. The lifting rings have been designed to carry the full weight of the engine, therefore auxiliary slings are not required or desired.

CAUTION: Slings must not be so short as to place the engine lifting eyes in significant sheer stress. Strain on the engine lifting eyes must not be in excess of 10° from the vertical. *A spacer bar must be placed between the two lifting eyes, if supported by valve cover studs.*