

# Disclaimer for Cutwater Normal Checklist

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## Source of Checklist Items

The items in this checklist were compiled by the author based on information from Volvo engine manuals, the boat owner's manual, and the author's personal experience. The checklist is tailored to the author's specific vessel and operating conditions and may not be suitable for other boats or operations. Discretion is advised when using this checklist, and users should verify its applicability to their own vessel and circumstances.

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 <p>CUTWATER</p>	<p>NORMAL CHECKLIST</p>	<p>CUTWATER C-30 SEDAN</p>
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**Style 1**

**The checklist is on the front, and the EVC Reference table is on the back.**

**Instructions: Print with Doubled-side mode = ON**

**BEFORE START**

BATTERIES  
 .....  
 ON  
 SHORE POWER BREAKER  
 ..... OFF  
 SHORE POWER CABLE .....  
 DISCONNECT  
 WEBASTO FURNACE .....  
 CHECK/OFF  
 ENGINE ..... HATCH  
 ..... OPEN  
 BILGE ..... CHECK FOR  
 OIL/FUEL/WATER  
 ENGINE VISUAL INSPECTION .....  
 CHECK  
 BELTS AND PULLEY  
 ..... CHECK  
 ENGINE OIL LEVEL .....  
 CHECK  
 COOLANT LEVEL  
 ..... CHECK  
 PRIMARY FILTER VACUUM GAUGE .....  
 CHECK  
 RAW WATER STRAINER .....  
 CHECK/CLEAN  
 RAW WATER INTAKE ..... SEACOCK  
 OPEN  
 THROTTLE  
 .....  
 NEUTRAL

**BEFORE CRUISE (cont)**

RADAR  
 .....  
 ..... ON  
 NAVIGATION LIGHTS ..... ON  
 (IF NECESSARY)  
 OIL PRESSURE (EVC) .....  
 25-30 PSI  
 TEMPERATURE (EVC) .....  
 160-190 F

**CRUISE**

TRIM ..... TABS  
 .....  
 . SET  
 THROTTLE .....  
 CRUISE REGIME  
 FUEL ..... FLOW  
 .....  
 CHECK  
 OIL PRESSURE (EVC) .....  
 60-70 PSI  
 TEMPERATURE (EVC) .....  
 160-190 F  
 ..... MFDs  
 .....  
 ..... SET  
 AUTOPILOT .....  
 ON (IF APPLICABLE)

**AFTER START**

EXHAUST WATER FLOW  
 ..... CHECK  
 ENGINE ..... HATCH  
 ..... CLOSED  
 INVERTER .....  
 OFF (IF APPLICABLE)

**APPROACH**

AUTOPILOT  
 .....  
 OFF  
 VHF  
 .....  
 ..... SET CH  
 RADAR  
 .....  
 ..... OFF  
 SLIP ASSIGNMENT .....  
 CONFIRMED

IDLE ..... RPM  
 600-650  
 OIL PRESSURE (EVC) .....  
 25-30 PSI  
 TEMPERATURE (EVC) .....  
 160-190 F  
 ALTERNATOR (EVC) .....  
 13.5-14.5 V

WIND ..... & ..... CURRENT  
 ..... CHECK  
 LOW ..... SPEED ..... MODE  
 ..... ON  
 SPEED ..... NO  
 WAKE  
 TRIM ..... TABS  
 .....  
 .. UP  
 LINES AND FENDERS .....  
 SET/DEPLOYED  
 MAST/VHF ANTENNA ..... DOWN (IF  
NECESSARY)  
 THRUSTERS  
 .....  
 ON/TEST  
 SCAN SORROUNDINGS  
 ..... DONE

**BEFORE DEPART**

TRANSMISSION ..... CHECK  
(FWD/REAR/NEUTRAL)  
 TRIM ..... TABS  
 .....  
 ..... UP  
 STEERING  
 .....  
 CHECK  
 THRUSTERS  
 .....  
 ON/TEST  
 LOW ..... SPEED ..... MODE  
 ..... ON  
 VHF ..... RADIO  
 .....  
 ON/CH-16  
 WEATHER  
 .....  
 CHECK  
 NAVIGATION ..... PLAN  
 ..... REVIEW  
 FUEL  
 .....  
 ..... CHECK  
 LINES AND FENDERS .....  
 SET/DEPLOYED

**AFTER DOCK**

DOCK / ..... SPRING ..... LINES  
 ..... TIED  
 FENDERS  
 .....  
 ADJUSTED  
 THRUSTERS  
 .....  
 OFF  
 ENGINE .....  
 SHUTDOWN  
 VHF/NAV LIGHTS/MFDs  
 ..... OFF  
 HATCHES  
 ..... ALL  
 CLOSED  
 SHORE POWER CABLE .....  
 CONNECTED  
 SHORE ..... POWER ..... BREAKER  
 ..... ON

**BEFORE CRUISE**

	<b>VOLVO PENTA D6 435 EVC REFERENCE TABLE</b>	<b>CUTWATER C-30 SEDAN</b>
<b>THRUSTERS</b> ..... <b>OFF</b> <b>LOW</b> <b>SPEED</b> <b>MODE</b> ..... <b>OFF</b> <b>LINES AND FENDERS</b> ..... <b>STOWED</b> <b>MAST/VHF</b> <b>ANTENNA</b> ..... <b>UP</b>	<b>INVERTER</b> ..... <b>ON/CHECK CHARGING</b>  <b>RAW WATER INTAKE</b> ..... <b>SEACOCK CLOSED</b> <b>ENGINE/THRUSTERS BATTERIES</b> ..... <b>OFF</b>	

<b>PARAMETER</b>	<b>NORMAL THRESHOLD</b>	<b>UNITS</b>	<b>NOTES / ACTION IF ABNORMAL</b>
ENGINE OIL PRESSURE	Idle (600-700 RPM): 25-30 PSI Cruising (2500-3000 RPM): 50-100 PSI	PSI	Low pressure (<20 psi at idle, <40 psi cruising): Shut down engine, check oil level/leaks. High pressure (>120 psi): Investigate for blockages.
ENGINE COOLANT TEMPERATURE	Idle/Warm-Up: 140-160°F Operating: 160-190°F	°F	High temp (>200°F): Reduce RPM, check raw water flow/seacock. Low temp (<140°F after warm-up): Inspect thermostat.
EXHAUST TEMPERATURE	100-150°F above coolant temp (260-340°F typical)	°F	High exhaust temp (>350°F): Check raw water strainer/impeller. Stop if persistent.
TURBO BOOST PRESSURE	Idle: 0-2 psi Cruising: 15-25 psi	PSI	Low boost (<10 psi at cruise): Inspect turbo/intake for leaks. High boost (>30 psi): Check fuel system/EVC error codes.
FUEL PRESSURE	40-60 psi (common-rail system)	PSI	Low pressure (<30 psi): Check fuel filters/pump (pre-start checklist). High pressure (>70 psi): Inspect injectors/EVC diagnostics.
ENGINE RPM	Idle: 600-700 RPM Cruising: 2500-3000 RPM Max: 3500 RPM	RPM	High idle (>800 RPM): Check throttle linkage. Low idle (<500 RPM): Inspect fuel delivery. Over-rev (>3600 RPM): Reduce throttle immediately.
ALTERNATOR VOLTAGE	13.5-14.5V (charging) 12.0-12.8V (not charging)	V	Low voltage (<12V pre-start): Charge/check batteries. High voltage (>15V): Check EVC

FUEL FLOW RATE	Idle: 0.5-1 GPH Cruising: 10-15 GPH	GPH	High fuel flow (>20 GPH at cruise): Check for leaks/injector issues. Low flow: Inspect filters (pre-start checklist).
TRANSMISSION OIL PRESSURE	150-250 psi (forward/reverse)	PSI	Low pressure (<100 psi): Check transmission fluid. High pressure (>300 psi): Inspect for blockages—stop engine if persistent.

## Style 2

**Same checklist steps, but designed to fit in ½ page width. Checklist items appear on both front and back of the page.**

**Print the EVC Reference table on a separate page.**

**Instructions: Print with Double-sided mode = ON**

	<p><b>NORMAL CHECKLIST</b></p>	<p><b>CUTWATER C-30 SEDAN</b></p>
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<b>BEFORE START</b>	
BATTERIES .....	
ON SHORE POWER BREAKER	
..... OFF SHORE POWER CABLE .....	
DISCONNECT WEBASTO FURNACE .....	
CHECK/OFF ENGINE	HATCH
..... OPEN BILGE .....	CHECK FOR
OIL/FUEL/WATER ENGINE VISUAL INSPECTION .....	
CHECK BELTS	AND PULLEY
..... CHECK ENGINE OIL LEVEL .....	
CHECK COOLANT	LEVEL
..... CHECK PRIMARY FILTER VACUUM GAUGE .....	
CHECK RAW WATER STRAINER .....	
CHECK/CLEAN RAW WATER INTAKE .....	SEACOCK
OPEN THROTTLE	
..... NEUTRAL	

**AFTER START**

EXHAUST WATER FLOW  
..... CHECK  
ENGINE HATCH  
..... CLOSED  
INVERTER .....  
OFF (IF APPLICABLE)  
IDLE RPM  
.....  
600-650  
OIL PRESSURE (EVC) .....  
25-30 PSI  
TEMPERATURE (EVC) .....  
160-190 F  
ALTERNATOR (EVC) .....  
13.5-14.5 V

**BEFORE DEPART**

TRANSMISSION ..... CHECK  
(FWD/REAR/NEUTRAL)  
TRIM TABS  
.....  
..... UP  
STEERING  
.....  
CHECK  
THRUSTERS  
.....  
ON/TEST  
LOW SPEED MODE  
..... ON  
VHF RADIO  
.....  
ON/CH-16  
WEATHER  
.....  
CHECK  
NAVIGATION PLAN  
..... REVIEW  
FUEL  
.....  
..... CHECK  
LINES AND FENDERS .....  
SET/DEPLOYED

**BEFORE CRUISE**



AUTOPILOT  
 .....  
 OFF  
 VHF  
 .....  
 ..... SET CH  
 RADAR  
 .....  
 ..... OFF  
 SLIP ASSIGNMENT .....  
 CONFIRMED  
 WIND & CURRENT  
 ..... CHECK  
 LOW SPEED MODE  
 ..... ON  
 SPEED  
 ..... NO  
 WAKE  
 TRIM TABS  
 .....  
 .. UP  
 LINES AND FENDERS .....  
 SET/DEPLOYED  
 MAST/VHF ANTENNA ..... DOWN (IF  
 NECESSARY)  
 THRUSTERS  
 .....  
 ON/TEST  
 SCAN SORROUNDINGS  
 ..... DONE

**AFTER DOCK**  
 DOCK / SPRING LINES  
 ..... TIED  
 FENDERS  
 .....  
 ADJUSTED  
 THRUSTERS  
 .....  
 OFF  
 ENGINE .....  
 SHUTDOWN  
 VHF/NAV LIGHTS/MFDs  
 ..... OFF  
 HATCHES  
 ..... ALL  
 CLOSED  
 SHORE POWER CABLE .....  
 CONNECTED

SHORE	POWER	BREAKER
.....	ON	
INVERTER	.....	ON/CHECK
CHARGING		
RAW WATER INTAKE	.....	SEACOCK
CLOSED		
ENGINE/THRUSTERS BATTERIES		
.....	OFF	