

# 7.3 / ENGINE AND FUEL

## WE ARE LISTING GENERAL PROCEDURES FOR OPERATING GAS AND DIESEL ENGINES — FOR SPECIFIC INFORMATION PLEASE REFER TO YOUR ENGINE OWNERS MANUAL.

### PRE-START

- (1) Read the procedures as outlined in the engine operating manual.
- (2) Check your fuel supply. Know the cruising radius your supply will allow.
- (3) Make sure the valve for engine cooling water is open.
- (4). Open the fuel valve.
- (5) Check engine oil level.
- (6) Turn the Safety Main Switch. With a two-battery system, turn the Safety Main Switch to the "1", "2", or "both" position. This switch will select the battery of your choice, or, if necessary, both batteries.

**CAUTION: When engine is running, do not change position on the Safety Main Switch as this will severely damage the alternator.**

- (7) Run the bilge blower for at least five (5) minutes (Gas engines only).
- (8) Check for bilge fumes. If gasoline or diesel fumes or liquid fuel oil or gasoline are present in any form, do not start engine, smoke, use electrical appliances, or light stove. Correct the situation and then proceed.

### STARTING ENGINE

(NOTE: Starting instructions are in summary only — they may vary by model and manufacturer.)

#### **GAS ENGINE STARTING PROCEDURE:**

- (1) Turn the engine ignition key to the "ON" position.
- (2) Pull out the choke.

- (3) Place throttle lever at ¼ open position.

- (4) Make sure clutch lever is in neutral.

- (5) Press starter button, or turn key (Varies with engines).

- (6) When the engine starts, push the choke in slowly until running smoothly.

- (7) With the engine at idle, check oil pressure and battery charge.

- (8) Check the exhaust outlet to be sure that cooling water is being discharged steadily.

- (9) When boat is in motion, bilge blower may be turned off.

#### **DIESEL ENGINE STARTING PROCEDURE:**

- (1) Place the clutch handle in "Neutral" position.

- (2) Place the accelerator lever in the "half" position.

- (3) Place the decompression lever in the "No Compression" position. (Electric starter: place in "compression" position.

- (4) Turn the starting handle 5-6 times to start the flywheel revolving on its own power.

Pull the decompression lever down to the compression position, Turn 2-3 times in this condition without easing up, to start engine.

(Electric starter: Press starter button to start engine after step 3)

- (5) Make sure water is coming out of cooling water outlet pipe.

- (6) Warm up engine for more than 5 minutes.

### STOPPING ENGINE

- (1) Gas engines: Idle down. (Engine should be in neutral). Diesel engines: Idle and race before stopping. (See manual).

- (2) Turn ignition switch to "OFF".

- (3) Close the engine cooling water valve and fuel valve.

- (4) Turn off battery switch.