

APPENDIX

A....Weekly Boat Functional

B....Equipment Check List

C....Hull Maintenance Progedures

D....Trouble Check Chart

E....Warning Horn Signals

F....Engine Overheating

WEEKLY FUNCTIONAL EMERGENCY RESCUE BOAT

BOAT NO. _____

PILOT HOUSE

- | | |
|--|---|
| <input type="checkbox"/> Chart Case
<input type="checkbox"/> Navigational Case
<input type="checkbox"/> Ground Control Radio
<input type="checkbox"/> VHS Marine Radio
<input type="checkbox"/> All Fax Radio
<input type="checkbox"/> Siren
<input type="checkbox"/> Remote Spotlights
<input type="checkbox"/> Pilot House Door
<input type="checkbox"/> Fire Extinguishers
<input type="checkbox"/> Defroster Fan - Stb.
<input type="checkbox"/> Defroster Fan - Port
<input type="checkbox"/> Deadman Clip | <input type="checkbox"/> Kero Tank (heater)
<input type="checkbox"/> Radar
<input type="checkbox"/> Compass
<input type="checkbox"/> Raytheon Depth Finder
<input type="checkbox"/> Global Positioning System
<input type="checkbox"/> P.A. System
<input type="checkbox"/> Folding Chair (leg)
<input type="checkbox"/> Fixed Windows
<input type="checkbox"/> Sliding Windows
<input type="checkbox"/> Night Light
<input type="checkbox"/> Heater Switch |
|--|---|

HELM SWITCH PANEL

- | | |
|--|--|
| <input type="checkbox"/> Panel Light Switch
<input type="checkbox"/> Navigational Light
<input type="checkbox"/> Docking Lights
<input type="checkbox"/> Strobe Light
<input type="checkbox"/> Spot Light - Stb.
<input type="checkbox"/> Spot Light - Port
<input type="checkbox"/> Courtesy Lights
<input type="checkbox"/> Cockpit Lights
<input type="checkbox"/> Deck Light
<input type="checkbox"/> Floodlight - Port
<input type="checkbox"/> Floodlight - Stb. | <input type="checkbox"/> Fan
<input type="checkbox"/> Wipers - Port
<input type="checkbox"/> Wipers - Stb.
<input type="checkbox"/> Panel Light Dimmer Knob
<input type="checkbox"/> Nav. & Anchor Switch
<input type="checkbox"/> Aft. Bilge Auto/Manual
<input type="checkbox"/> Forward Bilge Auto/Manual
<input type="checkbox"/> Heater Control Unit
<input type="checkbox"/> Horn
<input type="checkbox"/> Battery Parallel Button
<input type="checkbox"/> Oil Reservoir Tank Gauge |
|--|--|

DASH BOARD & ENGINE CONTROLS

- | | PORT | STB | | PORT | STB |
|---------------------------|------|-----|--------------------|--------|--------|
| Throttle/Gearshift Levers | () | () | Hour Meters | (----) | (----) |
| Eng. Trim Tilt Switches | () | () | Boat Trim Switches | () | () |
| Engine RPM Gauges | () | () | Deadman Controls | () | () |
| Temperature Gauges | () | () | Start Buttons | () | () |
| Battery volt Meter Gauges | () | () | Choke Buttons | () | () |
| Trim Gauges | () | () | Stop Buttons | () | () |
| Water Press. Gauges | () | () | Solenoid Switches | () | () |

REMARKS _____

"V" BERTH

()	First Aid Kit	()	P.F.D.
()	Gloves - Work	()	Mustang Suites
()	Gloves - Wet/Dry	()	Foul Weather Gear
()	Boots	()	Flash Lights
()	Tool Box	()	Paddles
()	Portable Air Horn	()	Signaling Kit
()	Damage Control Kit	()	Rescue Harness
()	Cushions	()	Blankets
()	Life Rafts	()	Helmets
()	Goggles	()	Grounding Rod
()	Fire Extinguisher	()	Bilge Pump Fwd.
()	Cabin Lights		

REMARKS _____

COCKPIT AREA

()	Fuel Gauge on Deck	()	Pike Pole
()	Insert Door	()	Boat Pole
()	Spring Line	()	Battery Chg. Elec. Line
()	Bow & Stern Lines	()	Battery charging Outlet
()	Master Battery Switches	()	Rescue Line Bag
()	Life Ring	()	Rescue Heaving Line

REMARKS _____

STORAGE BOX

()	Boat Fenders	()	Folding Dive Ladder
()	Drain Plug - Port	()	Aft Bilge Pump - Port
()	Drain Plug - Stb	()	Aft Bilge Pump - Stb
()	Life Rafts		

REMARKS _____

TRANSOM & REAR WELL AREA

()	Battery - Port	()	Elec. Power Tilt-Port Eng.
()	Battery - Stb	()	Elec. Power Tilt-Stb Eng.
()	Eng. Tilt Lock - Port	()	Trim Tab - Port
()	Eng. Tilt Lock - Stb	()	Trim Tab - Stb
()	Transducer Mount	()	Oil Tank - 3 Gal.

REMARKS _____

BOAT EXTERIOR

- | | |
|-------------------------------|----------------------------|
| () Fuel Tank Filled | () Bow Eye |
| () Danforth Anchor | () Bow docking Lights |
| () Anchor Chain/Line | () Forward Safety Rail |
| () Heavy Duty Rubbing Stakes | () Rescue Rails |
| () Hull Cutout | () Engine Crash Bar |
| () Helo Lifting Eyes | () Antennas X 3 |
| () Windshield Wiers | () Radar Dome |
| () Folding Mast | () Spot Light - Port |
| () Strobe Light | () Spot Light - Stb |
| () Cockpit Light - Port | () Pilot House Hand Rails |
| () Cockpit Light - Stb. | () Anchor Light |
| () Electric Air Horn | () Remote Spotlights |
| () Life Rings | () Gel-Coat |
| () Cleats | () Forward Hatch |
| () Torsional Tow Bar | () Fuel Fill Cap |
| () Heater Vent | () Fuel Vent |
| () Life Rings | |

REMARKS _____

INSPECTION PERFORMED BY _____ DATE ___/___/___

CREW CHIEF SGT. _____ DATE ___/___/___

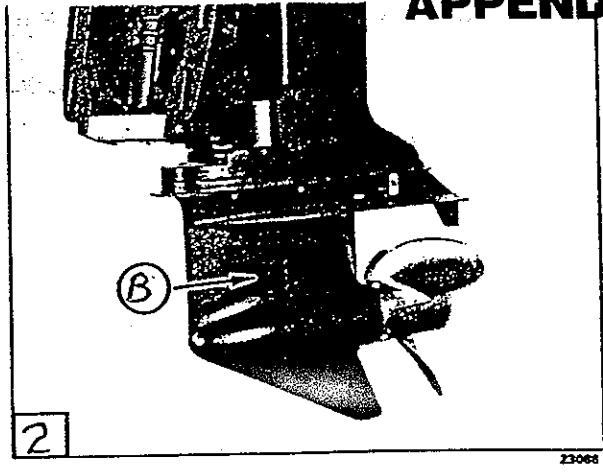
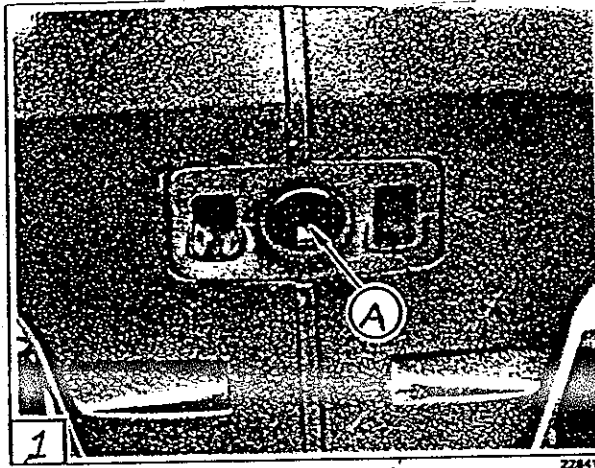
APPENDIX B

ON BOARD EQUIPMENT CHECK LIST

ITEM	QUANTITY	YES	NO
P.F.D. Equipped With;	10	()	()
1. whistle			
2. knife			
3. strobe light			
4. P.M.L. (chem. lt.)			
Mustang Suits (in water proof bag when H2O temp. below 60 dgrs.)	10	()	()
Gloves - Stock	6 pr.	()	()
Gloves - Wet/Dry	6 pr.	()	()
Boots - misc. sizes	6 pr.	()	()
Foul Weather Gear	6 sets	()	()

BOAT EQUIPMENT

Fenders	4	()	()
Boat Hook	1	()	()
Deadman Clip	1	()	()
Deadman Clip - spare	1	()	()
Dive Ladder (folding)	1	()	()
1/2 Mile Light	1	()	()
Flash Light	2	()	()
Spliced Lines - 25 ft.	4	()	()
Lines - 50 ft.	2	()	()
100 ft. Double Braided Line	1	()	()
Tool Box containing	1	()	()
adj. wrench	1	()	()
flat edge scwdriver	1	()	()
Philips scwdriver	1	()	()
pliers	1	()	()
duct tape	1	()	()
electrical tape	1	()	()
motor flushing adapter	1	()	()
gas cap tool	1	()	()
extra drain plug	2	()	()
manual winch crank	1	()	()
box spare fuses	1	()	()
seat belt cutters	2	()	()
crash axe	1	()	()
bolt cutters	1	()	()
halagen tool	1	()	()



ENGINE OVERHEATING

Note DO NOT operate the engine continuously if a steady stream of water is not coming out of the water pump indicator.

If the engine overheats, the *S.L.O.W.*™ overheat warning system will automatically limit engine speed to approximately 2500 RPM. The overheat problem must be corrected and the warning system must be reset before you can return to normal operation.

1 IF water flow at the water pump indicator **A** stops, becomes intermittent, or the warning horn sounds, reduce engine speed to IDLE and:

- Shift to REVERSE. Operate at slow speed for 15 seconds, then shift back to NEUTRAL. This could clear debris that might be blocking the water intake screens. Refer to FEATURES.

1 2 IF the water pump indicator is still not discharging a steady stream of water, STOP the engine and:

- Remove the emergency stop switch clip and lanyard
- Raise engine to the TILT position
- Clean water intake screens **B** and water pump indicator
- Lower engine to RUN position
- Start engine and check water pump indicator. If the water pump indicator is not discharging a steady stream of water, STOP the engine immediately.

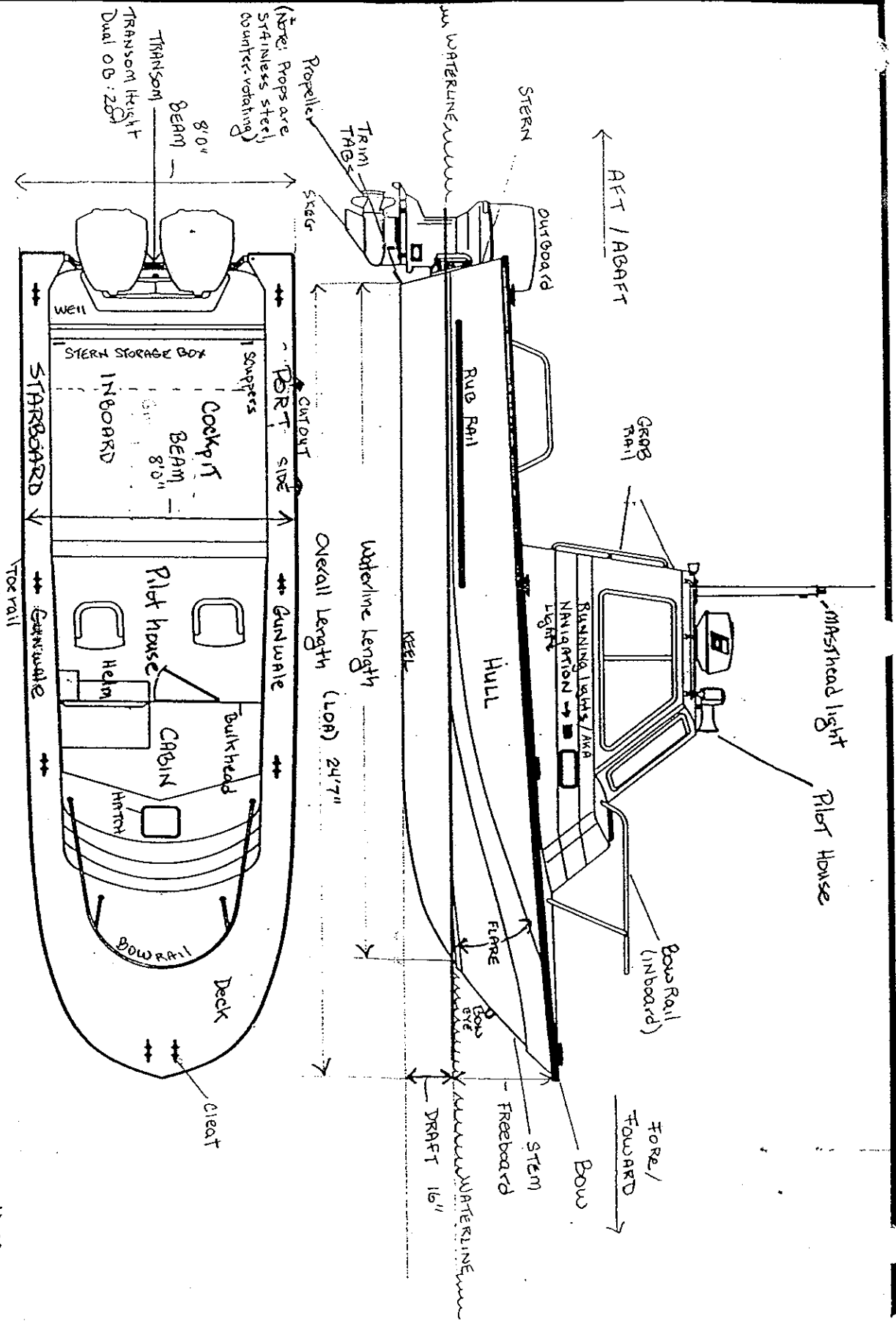
Note DO NOT operate the engine continuously if a steady stream of water is not coming from the water pump indicator. The engine must be serviced or serious damage will result. See your DEALER.

IF the water pump indicator is discharging a steady stream of water, run the engine at fast idle in NEUTRAL.

Important You might have to run up to two minutes in NEUTRAL to allow the engine to cool and the horn to stop sounding.

- If the warning horn does not stop sounding within two minutes, STOP the engine. See your DEALER.

After the engine has cooled and the warning horn stops, shut off the engine to reset the overheat warning system. Restart the engine for normal operation.



DRAWN ST DATE 4-20-89 APP'D SAM

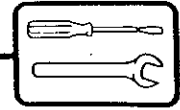
MATERIAL FT 754

BOSTON WHALER INC.
 COMMERCIAL PRODUCTS DIVISION
 1149 HINGHAM STREET, ROCKLAND MA 02370
 TELEPHONE (617) 71-1400 TELEX 940708

DWS # CS-1346-25 REV

TITLE 25' CHALLENGER

JD297 1-92



TROUBLE CHECK CHART

Symptom	Possible Cause
Starter motor will not operate	<ul style="list-style-type: none"> ● Shift handle not in NEUTRAL ● Battery and electrical connections loose or corroded ● Blown, 20-amp fuse. Refer to FUSE.
Motor will not start	<ul style="list-style-type: none"> ● Emergency stop switch's clip not in place ● Shift handle not in NEUTRAL ● Fuel tank empty ● Fuel hose disconnected, kinked ● Fuel system contaminated with water or dirt ● Fuel pump filter obstructed ● COLD ENGINE: Engine not primed ● WARM ENGINE: Engine flooded (If flooded: disconnect fuel hose at motor, raise fast idle lever completely, crank engine. If it starts, run until cleared. If it fails to start, wait a few moments and try again.) ● Spark plugs carboned, burned, or wet ● Spark plugs improperly gapped ● Ignition system component failure ● Starting instructions not followed
Motor will not idle properly	<ul style="list-style-type: none"> ● Carburetor mixture adjustment not set correctly ● Spark plugs damaged, insulator cracked, wrong spark plugs ● Fuel/oil mixture incorrect
Motor loses power	<ul style="list-style-type: none"> ● Spark plugs damaged, insulator cracked, wrong spark plugs ● Fuel pump filter obstructed ● Fuel system contaminated with water or dirt ● Water intakes obstructed and cooling system not operating correctly. Refer to Operation Section, ENGINE OVERHEATING.
Motor vibrates excessively	<ul style="list-style-type: none"> ● Propeller blades bent, broken, or missing ● Propeller shaft bent ● Propeller fouled and restricted ● Carburetor mixture adjustment not set correctly ● Steering friction screw loose
Motor runs, but makes little or no progress	<ul style="list-style-type: none"> ● Propeller hub loose, slipping ● Propeller blades bent or missing ● Propeller shaft bent ● Propeller fouled and restricted
Warning horn activates	<ul style="list-style-type: none"> ● Refer to Features Section, WARNING HORN SIGNALS



WARNING HORN SIGNALS

Important A warning horn is built into the *OMC* prewired remote control or is part of the *OMC* accessory wiring harness. The warning horn has the following distinct signals that will alert you to engine problems.

When the ignition key is turned to the "ON" position, the warning horn will beep once, indicating the horn is working.

SIGNAL	PROBLEM	IMMEDIATE ACTION	REFER TO
Horn sounds continuously and engine WILL NOT exceed 2500 RPM	Engine overheat	Reduce engine to "IDLE" speed and return shift handle to "NEUTRAL" position	NOTE #1
Horn sounds rapid, short tones that vary with engine speed	No oil flow from pump	STOP engine or limit engine speed to a maximum of 1500 RPM	NOTE #2
Horn sounds one short tone every 20 seconds	Low oil level in oil tank	Refill oil tank	NOTE #3
Horn sounds continuously at or near full throttle, but engine speed is NOT affected	Fuel restriction	Reduce engine to "IDLE" speed	NOTE #4

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NOTE #1

If the engine overheats, the *S.L.O.W.*™ overheat warning system will automatically limit engine speed to approximately 2500 RPM. The overheat problem must be corrected and the warning system must be reset before you can return to normal operation.

For information about evaluating the overheat problem and possible "on-the-water" fixes, refer to Operation Section, **ENGINE OVERHEATING**.

After the engine has cooled and the warning horn stops, **shut off the engine to reset the overheat warning system.** Restart the engine for normal operation.

Note If the engine overheats repeatedly, see your DEALER. After an engine overheat, have your DEALER torque the engine's cylinder head screws and, if equipped, exhaust cover screws.

NOTE #2

DO NOT operate the engine above 1500 RPM if the oil pump is not working. See your DEALER for service.

Note When the warning horn signal indicates no oil flow from the pump, operating above 1500 RPM can result in serious engine damage. If you must operate the engine above 1500 RPM to return to harbor, oil must be mixed with the gasoline at a 50:1 (2% oil) fuel/oil ratio. Refer to Fuel and Oil Section, **FUEL MIXING**.

NOTE #3

Oil is at reserve level in oil tank (approximately ¼ full). Avoid operating engine on oil reserve. Refill oil tank with recommended oil as soon as possible. Refer to Fuel and Oil Section, **FILLING OIL TANK**.

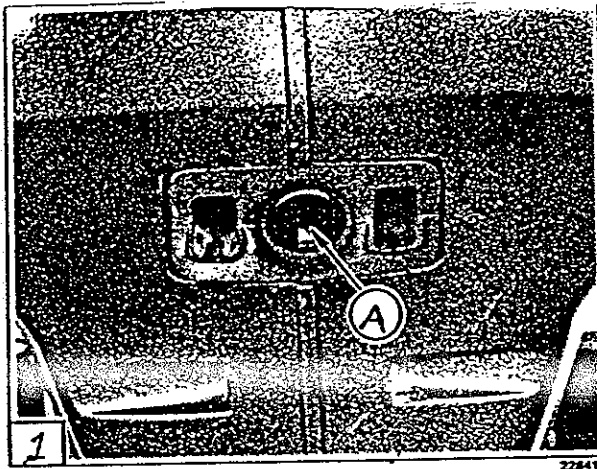
Note Failure to refill the tank could result in serious engine damage. If oil tank is run dry, the oil hose must be purged of air. Refer to Fuel and Oil Section, **OIL HOSE INSTALLATION**.

NOTE #4

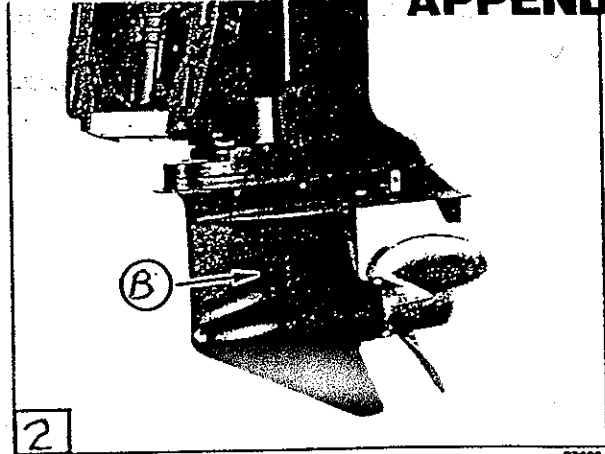
If the warning horn signal stops as engine RPM is reduced, a fuel restriction is indicated. The engine can be operated at a reduced throttle setting to return to harbor.

Inspect fuel filter for contamination and clean as necessary. Refer to Maintenance Section, **FUEL LINE FILTER**. Continued warning signals could indicate a problem with the boat's fuel supply system. See your DEALER for service.

If the warning horn does not stop when engine RPM is reduced, an engine overheat is indicated. Refer to **NOTE #1**.



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