Manual Introduction and Overview

This Product Applications Manual has been written and published by Mercury Marine and is targeted to the boat manufacturer's engineers and designers. It is intended to aid you, the boat manufacturer, in the proper integration of our power packages in your boats. Proper integration is critical to extract the full potential from your boat and engine packages and to deliver our mutual customers the reliability, durability, and performance that exceed their expectations.

The manual includes important information, recommendations, and requirements for designing your boats and setting up your assembly process to optimize the installation of our products. Laid out by system (i.e. fuel system, exhaust system), the manual allows the user to quickly locate important information about the systems that comprise the power package installation. It is not intended to replace the installation manuals (provided with the engines), which cover step-by-step installation procedures for the power package hardware. Your installers should still use the installation manuals when installing the power packages to ensure that no steps are missed and all cautions and warnings are understood.

We cannot anticipate all conceivable installations and their possible hazards or results. Therefore, any manufacturer or person who applies or installs the product in a manner that does not fulfill the requirements listed herein must first be completely satisfied that neither their safety nor the product will be endangered by the application or installation procedure selected.

The boat manufacturer or installing dealer is responsible for selecting the appropriate power package (including correct gear ratio and propeller) for a given boat. Making an appropriate selection requires knowledge of the boat (weight, length, hull design, intended use and duty cycle, desired speed, etc.) that is uniquely in the possession of the boat manufacturer or installing dealer. While Mercury employs people capable of assisting on such issues, the final decision on the application of the product rests with the boat manufacturer or installing dealer. Mercury recommends that any new or modified hull–power package combination be thoroughly tested prior to sale to verify that the boat performs as desired, handles safely, and that the engine runs in the specified RPM range.

All information, illustrations, and specifications contained in this manual are based on the latest product information available at the time of publication. Mercury MerCruiser reserves the right to make changes at any time without obligation. As required, revisions to this manual will be made available. Any suggested improvements to this manual are welcome and should be directed to:

Mercury MerCruiser, Technical Communication Department
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Safety Alerts and Notices

Throughout this publication, dangers, warnings, cautions, and notices, accompanied by the international HAZARD symbol ⚠, are used to alert the technician to special instructions concerning a particular service or operation that may be hazardous if performed incorrectly or carelessly. These safety alerts follow ANSI standard Z535.6-2006 for product safety information in product manuals, instructions, and other collateral materials. **Observe these safety alerts carefully.**

These safety alerts alone can not eliminate the hazards they signal. Strict compliance to these special instructions when performing the service, and common sense operation are major accident prevention measures.

⚠ DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

Indicates a situation which, if not avoided, could result in engine or major component failure.

IMPORTANT: Identifies information essential to the successful completion of the task.

NOTE: *Indicates information that helps in the understanding of a particular step or action.*

Related Bulletin List

Use the following table to record any future bulletins that affect or add to the information in this manual. List the bulletin numbers and affected sections or pages in this manual for your reference.

Bulletin Type	Bulletin Number	Bulletin Description/Title	Section/Page Affected

Declaration of Conformance – Mercury MerCruiser

This sterndrive or inboard engine when installed in accordance to Mercury MerCruisers' instructions complies with the requirements of the following directives by meeting the associated standards, as amended:

Recreational Craft Directive 94/25/EC; 2003/44/EC

Applicable Requirement	Standards Applied
Owner's manual (A.2.5)	ISO 10240
Openings in Hull, Deck and superstructure (A.3.4)	ISO 9093-1; ISO 9093-2
Handling characteristics (A.4)	ISO 8665
Inboard Engine (A.5.1.1)	ISO 15584; ISO 10088; ISO 7840; ISO 10133
Fuel System (A.5.2)	ISO 10088; ISO 7840; ISO 8469
Electrical System (A.5.3)	ISO 10133; ISO 8846
Steering system (A.5.4)	Applicable portions of: ISO 10592, ISO 8848 and ABYC P-17
Exhaust emission requirements (B.2)	ISO 8178
Owner's manual (B.4)	ISO 8665
Noise emission levels (C.1)	ISO 14509
Ignition-protected equipment (Annex II)	ISO 8846; SAE J1171; SAE J1191; SAE J 2031

Mercury MerCruiser declares that our sterndrive or inboard engines without integral exhaust, when installed in a recreational craft, in accordance with the manufacturers supplied instructions, will meet the exhaust emissions requirements of the directive mentioned above. This engine must not be put into service until the recreational craft in which it is to be installed has been declared in conformity, if so required, with the relevant provision of the directive.

Electromagnetic Compatibility Directive 89/336/EC, 92/31/EEC and 93/68/EEC

Generic emission standard	EN 50081-1
Generic immunity standard	EN 50082-1
Vehicles, boats and internal combustion engine driven devices - Radio disturbance characteristics	SAE J551 (CISPR 12)
Electrostatic discharge testing	EN 61000-6-2; EN 61000-4-2; EN61000-4-3

The notified body responsible for surveillance of the quality system under Full Quality Assurance Module H of Directive 2003/44/EC is:

Det Norske Veritas
Norway
Notified Body Number: 0575

This declaration is issued under the sole responsibility of Mercury Marine and Mercury MerCruiser.

Kevin Grodzki

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Manual Outline