MERCURY MerCruiser

Service Bulletin

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Use of the 10-Pin–to–14-Pin Adapter Harness

Models Affected

Engine Model	Serial Numbers
MerCruiser 3.0 L models	1A002000 and above
MerCruiser sterndrive models except 3.0 L	0W650000 and above
MerCruiser Inboard and Tow Sports models	0W690000 and above

Situation

MerCruiser introduced the 14-pin twist-lock harness connection to engines in the affected serial number ranges and made available an adapter harness (part number 84-866337T01). This adapter connects a boat with the older-style molded rubber 10-pin connector to a new engine with a 14-pin connector. In some installations, this harness has failed because it was installed without the recommended screw-type hose clamp.

Correction

Inspect the adapter harness when servicing one of these engines. If a clamp is not present, install a clamp on the 10-pin connector and tighten it securely. Do not overtighten or deform the connector. Please also ensure that the connection is not oriented at an angle or installed in a location that places the connection at risk for exposure to moisture.



33153

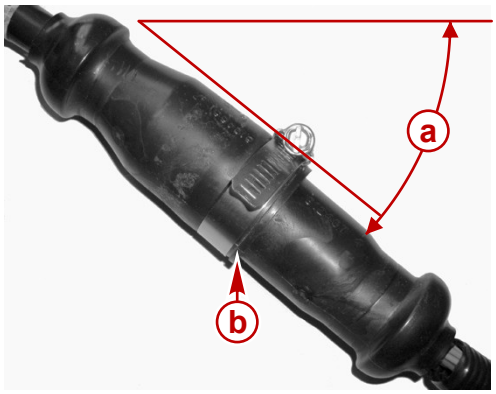
Clamp

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Use clamps or cable ties to secure the harness so that the connector slopes downward a minimum of 30° from horizontal to provide additional protection from water intrusion. Verify that the location does not interfere with moving parts on the engine or boat. To facilitate installation, apply soapy water to the outside of the 10-pin connection. Ensure that no water becomes trapped inside the connector during installation. Do not use a petroleum lubricant on the rubber connector, because it often allows the connection to separate during operation.



33154

a - 30° angle
b - Rubber lip

Parts Required

A 20–40 mm (0.8–1.6 in.) hose clamp (if needed), part number 54-815504220.

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