

Circulate to:     Sales Manager     Accounting     Service Manager     Technician     Parts Manager

## Corroded Key Switch due to Incorrect Installation

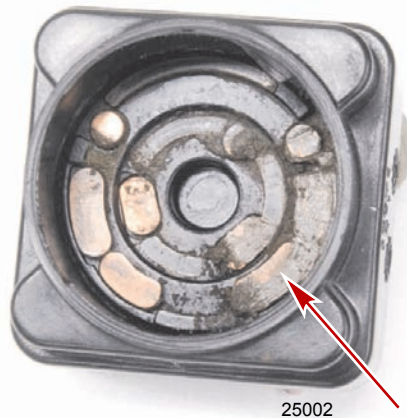
### Models Affected

Engines using:

- 3-position key switch P/N 87-897716
- 4-position key switch P/N 87-893353A02

### Situation

The above 3 and 4-position key switches have a drain hole that must face down when installed. If the key switch is installed with the drain hole facing up, water may enter the switch and eventually enter the contact area of the switch. Water in this area may cause corrosion of the contacts and electrical short circuit (see picture below). The installation instructions supplied with the key switches clearly show that the drain hole must face down.



Key switch contact terminals showing corrosion from water intrusion

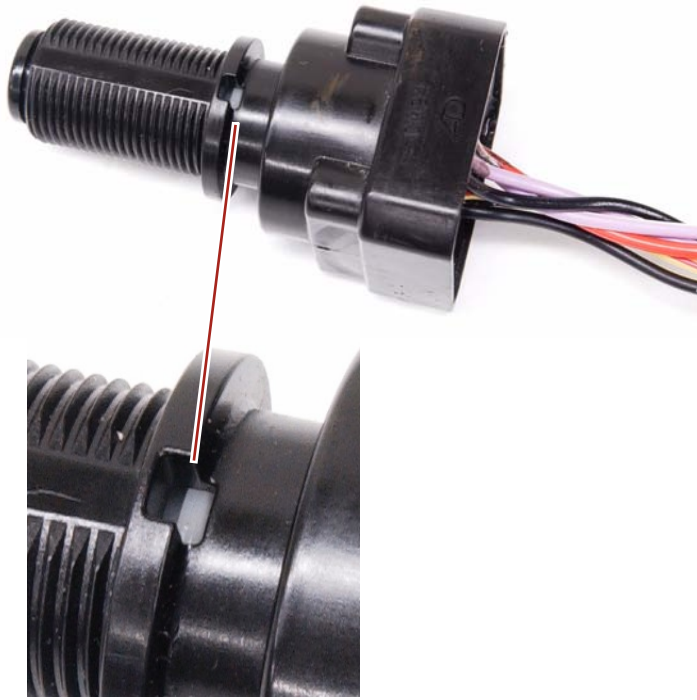
### Correction

Install the switch with the drain hole facing down. The drain hole can be identified on either the 3 or 4-position key switch by rotating the key and viewing the white inner key tumbler assembly moving. The opposite side is only an index notch and not a drain hole.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

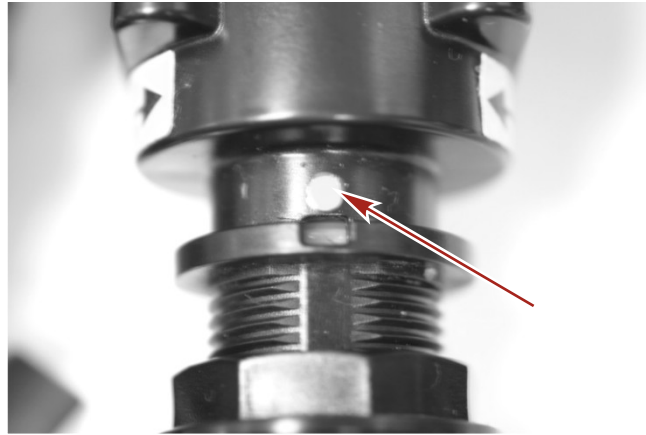
This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

**NOTE:** *If the key switch has experienced a short circuit, it must be replaced and the new switch installed correctly.*



25003

**White plastic tumbler viewed through drain hole**



25004

Later versions of the key switch assemblies will have a yellow paint dot placed next to the drain hole to aid in correct installation.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.